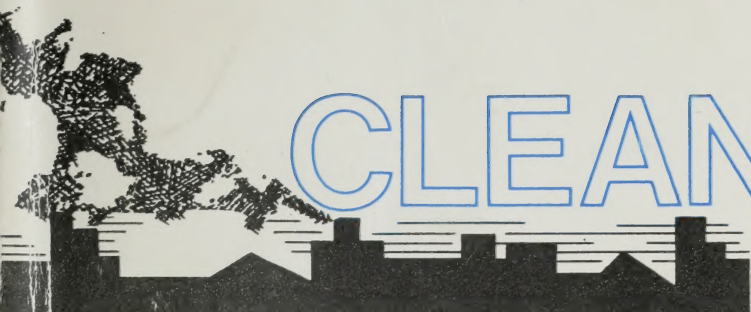




CLEAN AIR ACT

Law and Explanation



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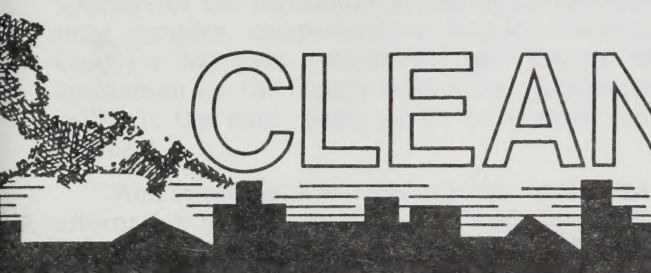
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CLEAN AIR ACT

Law and Explanation

Clean Air Act

Reflecting the Clean Air Act Amendments of 1990
signed by the President as P. L. 101-549
on November 15, 1990

CCH Editorial Staff Publication

COMMERCE, CLEARING, HOUSE, INC.

Setting the standard since 1913

4025 West Peterson Avenue Chicago, Illinois 60646

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Foreword

There are no shortages of great expectations and grand predictions for the Clean Air Act Amendments of 1990—the first comprehensive revision of the Clean Air Act since 1977. Congressman John Dingell, one of the sponsors of the legislation in the House of Representatives, called it the most complex, comprehensive, and far-reaching environmental law any Congress has ever considered, and Senator Max Baucus, the leading spokesman for the Senate side of the congressional conference committee, called it the most sweeping environmental law Congress will pass this century!

And sweeping it is—not only due to the extent of its controls on smog, alternative fuels, toxic industrial emissions and acid rain, and its cost to industry, estimated to be between \$20 and \$25 billion a year—but also in the specificity in which it sets pollution limits and timetables for industry.

Helping business wade through all of the complexities and provisions of the new and revised federal air pollution control programs is the main purpose of CLEAN AIR ACT — LAW AND EXPLANATION. The full text of the revised Clean Air Act begins at ¶ 2100 and selected provisions of the Clean Air Act Amendments of 1990 beginning at ¶ 3000. A glossary of terms used in the laws appears at ¶ 70. A brief look at the federal clean air programs before the 1990 changes appears at ¶ 50. A full explanation of all the current federal air quality control programs begins at ¶ 100, with an introductory overview at ¶ 60. A Table of Contents appears on page 5 and a Topical Index listing the book's information by subject appears on page 527.

December, 1990

COMMERCE CLEARING HOUSE, INC.

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Air Quality Controls from 1970 to 1990

¶ 50

The original Clean Air Act, signed into law by President Lyndon B. Johnson in 1963, was considered to be the first modern environmental law enacted by the United States Congress. However, it was the Clean Air Act of 1970, reviewed and amended by Congress in 1975 and 1977, that formed the basis of the federal air pollution control program in place for the last thirteen years.

Health-based national ambient air quality standards were the strategic basis of the Clean Air Act. The standards were to be met through the application of control technology that would reduce emissions continuously and result in improved air quality. Cost and technological capability were to be subordinated to public health protection requirements. Also, all requirements were to be national, with no facility having a competitive edge by having to meet less stringent controls. The Environmental Protection Agency was responsible for carrying out the program.

The Clean Air Program Prior to the 1990 Amendments

The Environmental Protection Agency set two kinds of National Ambient Air Quality Standards (NAAQS) specifying maximum acceptable levels of pollutants for outdoor air. Primary standards set limits which protected human health; secondary standards protected plants and animals. EPA set primary and secondary standards for six criteria pollutants: carbon monoxide, nitrogen oxides, lead, sulfur dioxides, ozone and particulates. EPA was required to review the standards every five years. Areas of the country already having high air quality had to meet prevention of significant deterioration (PSD) standards. Limitations were to be placed on new emissions in nonattainment areas.

Eight substances during this period were listed as hazardous air pollutants: asbestos, beryllium, mercury, vinyl chloride, radionuclides, inorganic arsenic, benzene, and coke oven emissions. National Emissions Standards for Hazardous Pollutants (NESHAPS) were promulgated for sources of seven of these pollutants.

Most air pollution comes from either stationary sources, such as factories, power plants and smelters, or mobile sources, such as cars, trucks and airplanes. To limit pollution from mobile sources, controls were in place on automobile emissions, including utilization of catalytic converters and the use of unleaded gasoline. EPA set New Source Performance Standards (NSPS) that set emission limits on new industrial plants and on existing ones that were substantially modified. Standards were in effect for most major industries.

Additionally, state governments were required to draw up State Implementation Plans (SIP's), which set out other measures to achieve acceptable air quality. These typically included controls on older industrial plants and other sources of pollution, along with measures to cut back traffic volumes and reduce vehicular emissions. SIP's were subject to EPA approval, and if a plan was not acceptable, EPA was required to provide an implementation plan which the state was then required to enforce.

The attainment of health-based air quality standards proved difficult, and, along with the continuing concerns about the Act itself (for example, validity of the premise that public health was the appropriate primary basis for regulation, the correct level of the air quality standards, workability of the Act's procedures, and the capacity to deal with new air pollution problems), led to the eventual passage of the Clean Air Act Amendments of 1990.

The New Clean Air Program — Overview

¶ 60

The Clean Air Act Amendments of 1990—passed by the House of Representatives by a 401 to 25 vote on October 26, 1990 and by the Senate by a 89 to 10 vote on October 27, 1990—was signed into law by President George Bush as P. L. 101-549 on November 15, 1990. Below is an overview of the current federal air pollution program with references to the more detailed discussions found later in this book.

Nonattainment Areas (¶ 100)

Almost all major United States cities are in nonattainment for one or more of the NAAQS, the most widespread and intractable of which is ozone, formed when volatile organic compounds and nitrogen oxides react in the presence of sunlight. For ozone, urban areas are now sorted into categories (marginal, moderate, serious, severe and extreme) with deadlines established ranging from three years for marginal areas and twenty years for extreme areas (Los Angeles).

Vapor recovery controls on gasoline pumps and vehicle inspection programs are among specific pollution control measures mandated for each category. The more severe the air quality program, the more control measures a nonattainment area must put into effect. State and local governments in nonattainment areas must identify and implement additional measures if the mandated ones do not work. EPA must issue rules to reduce emissions of volatile organic compounds and address emissions limitations for various sources such as oil-based paint, consumer solvents and marine vessel loading operations.

Similar categories, deadlines and control requirements are also mandated for cities not meeting carbon monoxide and particulate matter standards.

REGULATORY DEADLINES

States must bring their existing control requirements into line with federal standards by May 15, 1991.

Designation and classification of areas must be completed by about mid-March 1992.

Guidances for state implementation plans are to be issued by August 15, 1991.

Complete state implementation plans must be submitted by November 15, 1993.

The first group of guidance documents for retrofit controls on existing sources must be issued by November 15, 1992.

Motor Vehicles (¶ 200)

To reduce tailpipe emissions by 40%, new restrictions are imposed on emissions of hydrocarbons, carbon monoxide and nitrogen oxides from new cars beginning with the 1994 model year (Tier I). If necessary, a more stringent set of Tier II emissions limitations will be required early next

century. Standards requiring car manufacturers to install on-board canisters to recover emissions of gasoline vapor will be set.

EPA must come up with rules setting standards for carbon monoxide emissions from vehicles operating at cold temperatures. A Tier II cold carbon monoxide standard will be triggered for the 2002 model year if six cities are still in nonattainment with the standard in 1997.

Emissions reductions are required from fuels as well as vehicles, with more stringent controls required on gasoline volatility and the sulfur content of diesel fuels. In the nine cities with the worst ozone problems beginning in 1995, cars will have to operate on clean reformulated gasoline. Starting in 1992, CO nonattainment areas will have to sell oxygenated fuels such as gasohol during the winter.

A pilot alternative fuels program will be established in California, where, by 1999, 300,000 clean-fuel vehicles must be produced, sold and distributed in the state. California will also have to insure that clean alternative fuels are available to operate the vehicles. In the 26 worst ozone cities, centrally fueled fleets of ten or more vehicles will have to meet California emissions standards by 1998.

REGULATORY DEADLINES

New inspection and maintenance programs must be established in over 50 cities by November 15, 1991.

Enhanced inspection and maintenance programs must be established in over 70 cities by November 15, 1992.

Tailpipe regulations are due by May 15, 1991; standards are to begin phasing in with the 1994 model year.

Reformulated gasoline rules are to be issued by November 15, 1991.

Air Toxics (§ 300)

Largely through a new technology standard, air toxic emissions are targeted to be reduced by over 75% within ten years. Specifically identified are 189 chemicals—EPA must publish a list of industrial source categories for these chemicals and regulate each of them within ten years. Sources will have to install the maximum available control technology (MACT), and, if necessary, to later reduce emissions even further if there remains a significant residual risk after installation of MACT. MACT standards for 41 source categories must be set within two years.

Area sources (dry cleaners, gas stations, etc.) must also have standards set for them so that 90% of the emissions of the thirty most serious area source pollutants are regulated. Coke ovens that achieve a stringent level of control may qualify for a compliance date extension—utility emissions of air toxics are only required if EPA finds this regulation necessary. Standards are also imposed on municipal waste incinerators and facilities handling chemicals whose accidental release would threaten public health or the environment.

REGULATORY DEADLINES

Maximum available control technology rules for over 41 source categories are due by November 15, 1992.

Acid Rain (§ 400)

Acid rain is formed when sulfur dioxide and nitrogen oxide emissions undergo a chemical change in the atmosphere and return to earth, damaging lakes, forests and buildings. About 20 million tons of sulfur dioxide are emitted annually in this country, 75% from the burning of fossil fuels by electric utilities. In effect now is a two-phase utility power plant program for reducing sulfur dioxide emissions by 10 million tons from 1980 levels.

The first phase begins in 1995 and the second in 2000. Each source receives allowances equal to the number of tons of sulfur dioxide it is allowed to emit. If a source reduces its emissions more than is required, it can sell the extra allowances to another source, thus allowing the other source to increase emissions while remaining in compliance. A 2 million ton reduction from year 2000 projected levels of emissions of nitrogen oxides is also mandated.

REGULATORY DEADLINES

Allowances for the first phase of the control program are to be issued by November 15, 1991; for the second phase by May 15, 1992.

Allowance trading regulations are to be issued by May 15, 1992.

Continuous emissions monitoring regulations are to be issued by May 15, 1992.

Permits (§ 500)

Each major pollution source must have an operating permit that specifies its compliance requirements. The permits are for a fixed term of not more than five years. States are required to collect fees from permittees to cover program costs. EPA can review, even veto, permits. Permittees cannot be sued for violating EPA rules if a waiver of the rules is reflected in the permit.

REGULATORY DEADLINES

Permit regulations are due out by November 15, 1991.

Enforcement (§ 600)

EPA can issue administrative penalty orders of up to \$200,000 and field citations of up to \$5,000 for lesser infractions. Civil judicial penalties are enhanced, criminal penalties for knowing violations are now felonies, and new criminal authorities will be established for knowing and negligent endangerment. Sources have to certify their compliance, and EPA can issue administrative subpoenas for compliance data. EPA can also issue compliance orders with compliance schedules of up to one year. Citizen suit provisions allow citizens to seek penalties against violators, with the penalties going to a U.S. Treasury fund for use by EPA for compliance and enforcement activities.

Stratospheric Ozone and Climate Protection (§ 700)

Interim reductions in the phaseout of chlorofluorocarbons, halons and methyl chloroform are mandated. Hydrochlorofluorocarbons must be phased out of production beginning in 2015, with production elimination set for 2030. Federal preemption is allowed of state and local requirements for two years with a requirement for the lowest achievable level of

use and emissions. A national recycling program for CFCs used in refrigerators and air conditioners is now established.

REGULATORY DEADLINES

CFC phaseout rules are to be issued by September 15, 1991.

Miscellaneous Provisions (§ 800)

These include a federal acid rain research program; new research, development and air monitoring activities; additional unemployment benefits for workers losing their jobs as a result of compliance with air pollution control programs; and visibility improvement programs for areas near national parks.

Glossary of Terms Used in the Clean Air Act

¶ 70

Here is a list of important terms included in the Clean Air Act.

Acid rain. A complex chemical and atmospheric phenomenon that occurs when emissions of sulfur and nitrogen compounds are transformed by chemical processes and deposited on regions often far from the emitting source.

Air toxics. Any air pollutant for which a national standard does not exist (standards are in place for ozone, nitrogen dioxide, sulfur dioxide, and carbon monoxide, to name a few, so they are not classified within this category) that may cause cancer or other serious health problems.

Aromatics. Gasoline octane boosters such as benzene and toluene.

Best Available Control Technology (BACT). BACT's are to be determined at the state level as a yardstick for licensing the construction of big new facilities that could be major sources of pollution. That it is the "best available" means it is being used by industry in general in new construction.

Clean fuels. Blends of or substitutes for gasoline, including methanol, ethanol, and compressed natural gas.

Control Techniques Guideline (CTG). Guidance documents issued by EPA to define "reasonably available control technologies" that are to be used in existing facilities that do not meet the emission standards.

Chlorofluorocarbons (CFC's). A family of inert, nontoxic, easily liquefied chemicals used in refrigeration, air conditioners, packaging, insulation, or as solvents or aerosol propellants. Because CFC's are not destroyed in the lower atmosphere, they drift into the upper air and release chlorine that destroys the ozone layer.

Gasoline volatility. The property of gasoline that causes it to evaporate. Gasoline volatility is measured in pounds per square inch, with the higher the number, the more volatile the gasoline.

Halons. A family of compounds containing bromine used in fighting fires; an upper air ozone depleter.

Hydrochlorofluorocarbons (HCFC's). Chlorofluorocarbons that have been chemically altered by the addition of hydrogen, which makes them significantly less damaging to the upper ozone layer than other CFC's.

Lowest Achievable Emission Rate (LAER). Either the most stringent emission limit contained in the state plan of any state for the applicable category of sources, or the most stringent emission limitation achieved in practice within an industrial category.

Oxygenated gasoline. Gasoline that has been blended with alcohols or ethers that contain oxygen in order to reduce carbon dioxide and other emissions.

Ozone. A compound of three oxygen atoms that is the primary component of smog. Ozone is formed in the atmosphere through reactions involving volatile organic compounds, nitrogen oxides, and sunlight.

PM-10. Solid or liquid matter suspended in the atmosphere; "particulate matter" over 10 microns in diameter.

Reasonably Available Control Technology (RACT). Retrofit equipment specified by EPA.

Reformulated gasoline. Gasoline with an increased dose of oxygen and reduced amounts of benzene and heavy metals.

Residual risk. The quantity of health risk remaining after application of maximum achievable control technology.

State Implementation Plan (SIP). Documents prepared by states and subject to EPA approval that identify the actions and programs to be undertaken to control emissions within their boundaries.

Volatile Organic Compounds (VOC's). Chemicals in such substances as gasoline fumes and oil-based paints that react with nitrogen oxides in the presence of sunlight to form ozone.

Nonattainment Areas

¶ 100

¶ 101 Introduction

“Nonattainment areas” are regions—metropolitan statistical areas or larger—within the country that fail to meet federal air quality standards applicable to a variety of pollutants, including ozone (smog), carbon monoxide, sulfur dioxide, nitrogen dioxides, lead, and particulates. These regions, essentially target areas, are expected to make continuous, forward progress in controlling emissions within their boundaries. Those that do not abide by the rules will pay a price, either through loss of federal subsidies or by the imposition of controls that could be imposed through preemption of local law by the Environmental Protection Agency. Once a local government has had an area within its jurisdiction designated as a nonattainment area, it will be required to make its best efforts to rein in the pollutants spewed out by big factories and power plants; commercial buildings; automobiles, trucks and buses; and almost anything else that is a major factor in contributing to the deterioration of the air.

Initial Designations

The law provides that, no later than one year after the promulgation of a new national ambient air quality standard (NAAQS), the governor of each state must prepare an accounting of all areas within the state that could be designated as nonattainment (above 120 parts per million pollutants), attainment (lower ppm), or unclassifiable (unknown ppm) areas. A region that either does not meet the standard or contributes to the pollution of another area that fails the ppm test is to be considered a nonattainment district. About a year after the governors' act, EPA is expected to formally announce a list of federally designated nonattainment areas, but that announcement can be delayed for yet another year if the initial deadline cannot be met. States may contest the designation of any areas within their borders that were not included in their own submissions. (Clean Air Act Sec. 107(d) at ¶ 2107.)

Redesignations

Subsequent to the publication of the list, EPA, on its own volition, may notify any state that it contains an area being considered for redesignation as a nonattainment region. The agency must then provide the state with its reasons for the action and give the state an opportunity to respond to the proposal. States, at the same time, may propose redesignations to EPA, which must then approve or deny the request. Nonattainment areas will be considered for redesignation as clean areas if: the area has attained the national ambient air quality standard; the area has a fully approved plan; EPA determines that the improvement in air quality is due to permanent and enforceable reductions in emissions because of the implementation of a plan; the state has submitted, and EPA has approved, a maintenance plan for the area; and the area has met any other applicable requirements. (Clean Air Act Sec. 107(d) at ¶ 2107.)

State Implementation Plans

State implementation plans (SIPs) must include enforceable emission limitations, related control measures, and schedules and timetables for compliance that are necessary to meet the Clean Air Act mandates. Included among the many SIP requirements are establishment of systems to monitor, compile, and analyze data on air quality; enforcement procedures; controls on interstate air pollution; procedures to insure adequate personnel, funding, and authorities; monitoring systems; and a fee schedule to cover the costs of reviewing or implementing permits. In turn, EPA will issue minimum criteria that any SIP submission must meet and set up timetables and procedures approvals of those submissions. EPA must act on each submission, regardless of completeness, within 12 months of the filing by a state. Also, the new law requires EPA to issue federal implementation plans (FIPs) within 24 months of a finding that a state has failed to make an approvable SIP submission. (Clean Air Act Sec. 110 at ¶ 2110.)

Federal Compliance

The new law makes explicit that federal facilities are subject to the same fee requirements as are applicable to nongovernmental entities. The language should be sufficient to ensure federal compliance with all state and local regulations governing pollution control. (Clean Air Act Sec. 118 at ¶ 2118.)

¶ 102 General Provisions

About 96 cities in the United States currently do not meet Clean Air Act standards for ozone, 41 cities fail the carbon monoxide test, and at least 70 areas exceed the standard for particulate matter. As would be expected, there is some commingling of pollutants among the regions that have the dirtiest air. In general, once a district has been designated as a nonattainment area for any given pollutant or combination thereof, local authorities will be charged with adopting and enforcing measures designed to reduce the amount of emissions within their jurisdictions. Depending upon the severity of the pollution, nonattainment areas must be cleaned up within three to 15 years (in some cases 17 years, except Los Angeles, which has 20 years). Within each pollution category, specified increments of achievement must be realized to insure that steady progress is being made toward meeting the applicable standard. (Clean Air Act Sec. 172 at ¶ 2172.)

New Sources of Pollution

New pollution sources are subject to nationally uniform standards that reflect the use of the best technology available, taking costs into account. This requirement imposes more stringent requirements on new factories and utilities, for example, because engineering considerations allow for cheaper and more effective emissions control when the effort is incorporated into the building design and construction. Uniformity of the standard serves to eliminate the possibility that states might compete for new industry by relaxing their pollution control requirements. New pollution sources located in nonattainment areas must use technology capable of reducing emissions to the lowest achievable level, and they are required to offset the pollution that they introduce into an area with

comparable or greater reductions from other sources. (Clean Air Act Sec. 172 at ¶ 2172.)

“Imported” Pollution

Air pollution does not respect state boundaries, and emissions “imported” from outside areas place an economic burden on a receiving locality by increasing the clean-up costs of utilities and consumers located within the receiving area. Regions that may otherwise meet the standards, but which contribute to the nonattainment of another area, will therefore be designated as nonattainment districts despite the fact that their own air quality meets the federal tests.

To address the problem of interstate movements of air pollution, interstate transport regions will be established by the EPA that will consist of all states which contribute to violations in any one state for a particular pollutant. After establishing such a region, EPA may add or remove states from it, based on the same considerations that led to their inclusion. Whenever EPA establishes an interstate transport region, the agency must establish a commission consisting of the governor of each state or his designee, one air pollution official from each state in the region, the EPA administrator, and a representative from each of the relevant EPA regions. All actions are expected to be decided by a majority vote.

A Northeast ozone transport region commission encompassing eleven states and the District of Columbia has been established by law. It runs from northern New England through New York, New Jersey, Pennsylvania, Delaware, and Maryland and into parts of Virginia. The commission must convene within six months of enactment of the law. (Clean Air Act Secs. 176A and 184 at ¶ 2176A and 2184.)

Technology Information

EPA is to make the states’ control technology information available to other states and the public through a control technology clearinghouse for information regarding reasonably available control technology (RACT), best available control technology (BACT), and lowest achievable emission rate technology (LAER). (Clean Air Act Sec. 173(d) at ¶ 2173.)

¶ 103 Ozone

Classification

Nonattainment areas will be classified by the severity of the pollution measured within their boundaries, as defined either by metropolitan statistical areas or consolidated MSAs, as appropriate. Classifications are tied to a “design value” measured in parts per million of pollutants that will be determined by EPA, and the higher the design value assigned to a given region, the more time it will have to comply with the clean air standards. At the top of the list, and standing alone, is Los Angeles, which is classified as “extreme” at 280 ppm-plus; the district has 20 years to clean up its air.

There are four other classifications of more general application, starting at the bottom with “marginal” (.121 to .137 ppm), which have three years to meet the standard; “moderate” (.138 to .159 ppm), six years; “serious” (.160 to .179), nine years; and “severe”, with two parts “severe 1” (.180 to .190), 15 years, and “severe 2” (.191 to .279), 17 years. The Senate conferees said they intended that any reclassifications be of an

upward variety, that is, to allow additional time to meet the clean air standards. This is to be the case particularly with respect to marginal areas that have a low overall design value but a large number of one-time exceedances. Downward adjustments are expected to be rare, reserved only for areas that demonstrate that the control measures called for by the initial classification are clearly not necessary in order to meet and maintain the standards. (Clean Air Act Sec. 181 at ¶ 2181.)

Volatile Organic Compounds

Nonattainment areas must reduce emissions of volatile organic compounds (VOCs), a precursor of ozone, by 3% per year (with waivers for certain specified conditions) until the standard is attained. The new law expands the geographical coverage of the control program in recognition of the significant role that transported air pollution and community patterns play in the formation of ozone and other air pollutants. Control measures will be issued by EPA in the form of Control Technique Guidelines (CTGs), which are expected to define the level of control that must be applied to existing sources of pollution. Progress toward attainment of the standards must be based on actual reductions in VOC emissions, beginning with the measured pollution levels on a date certain. (Clean Air Act Sec. 182 at ¶ 2182.)

Nitrogen Oxides

The Clean Air Act recognizes the important role that nitrogen oxides play in ozone formation and establishes a stringent set of control requirements for new and existing sources. Regional commissions will be established to assess oxidant transport from within and without ozone corridors and to implement appropriate measures needed to attain compliance in an area. To ensure that no backsliding occurs from the implementation of previously approved nonattainment correction measures, Congress added a "savings clause" that makes permanent any past improvements in air quality. Improvements made prior to November 15, 1990 may not be discounted when measuring later advances in emissions reductions as required by the new rules. (Clean Air Act Sec. 182 at ¶ 2182.)

Motor Vehicle Inspection and Maintenance

Vehicle inspection and maintenance programs must be upgraded in ozone and carbon monoxide areas that already have such programs and must be started in some areas that do not already have them. By November 15, 1992, a state is required to implement an enhanced program for motor vehicle inspections. The program must meet a performance standard achievable by a program combining emission testing with inspection to detect problems related to misfueling or tampering with emission control devices. This program will apply to each urbanized serious nonattainment area with a population of 200,000 or more. The program must include inspections of computerized emission analyzers, as well as enforcement through vehicle registration denial unless the state can show that the enforcement provisions of an existing program are more effective. The program is to include annual emission testing unless the state demonstrates that a biennial inspection will be equally or more effective. Inspection, maintenance, and repair of emission control diagnostic systems are specifically required. The program will not allow waivers

for any vehicles covered by the emission control performance warranty or for tampering-related repairs.

All SIPs must provide for a motor vehicle inspection and maintenance program applicable to moderate areas. This differs from the requirement for marginal areas in that marginal areas not already required to have a motor vehicle inspection and maintenance program are not mandated to establish such a program. All moderate areas without exception are required to establish an inspection and maintenance program meeting EPA specifications. (Clean Air Act Sec. 182 at ¶ 2182.)

Gasoline Vapor Recovery

By November 15, 1992, states must submit a SIP revision requiring owners or operators of gasoline dispensing systems to install and operate a system for gasoline vapor recovery for emissions from the fueling of motor vehicles. EPA has been directed to issue guidance on the effectiveness of the required controls. Facilities selling less than 10,000 gallons of gasoline per month and independent marketers selling less than 50,000 gallons per month are not covered by these rules. (Clean Air Act Sec. 182(b) at ¶ 2182.)

Milestones

Each serious, severe, or extreme nonattainment area will be required to show the EPA that it has met the applicable percent emission reduction requirements within the stated time period or milestone. Milestones occur at 6 years after enactment and every 3 years thereafter. (Clean Air Act Sec. 182(g) at ¶ 2182.)

Sanctions

Areas that fail to prepare or implement a plan to attain air quality standards will either have their federal highway funds reduced or be subject to a requirement that new industrial projects offset emissions by a 2-to-1 ratio. (Clean Air Act Sec. 179 at ¶ 2179.)

Major Sources of Pollution

The definition of major sources of pollution has been expanded so that sources which emit less than 100 tons of VOCs annually are required to control emissions. The rules now cover facilities that emit 50 tons of VOCs in moderate and serious areas, 25 tons in severe areas, and 10 tons in extreme (Los Angeles only) areas. (Clean Air Act Sec. 182 at ¶ 2182.)

Commercial and Consumer Products

EPA must prepare, within three years, a study of VOCs from consumer and commercial products and to propose regulations to reduce emissions from such products. These regulations are to take into account technical feasibility, costs, time, and completion, and may include the prohibition or control of any activity in commerce. Consumer and commercial products are broadly defined and include any product, the use, consumption, storage, disposal, or destruction of which causes release of VOCs. The regulations are to be applicable only to manufacturers, wholesale distributors, importers, and processors; health products may be exempted where there are no suitable substitutes. (Clean Air Act Sec. 183 at ¶ 2183.)

Marine Vessels

Within two years, EPA must issue standards for the loading and unloading of marine tankers. To the extent practicable, these regulations are to apply to onshore facilities, which would minimize problems that might be created by subjecting vessels to inconsistent treatment at different ports. (Clean Air Act Sec. 183(f) at ¶ 2183.)

¶ 104 Carbon Monoxide*Classifications and Attainment Dates*

Carbon monoxide nonattainment areas are classified as follows:

1. moderate 9.1-16.4 ppm—December 31, 1995
2. serious 16.5 ppm and above—December 31, 2000

(Clean Air Act Sec. 186 at ¶ 2186.)

Milestones

By March 31, 1996, serious CO nonattainment areas are expected to achieve an aggregate reduction in CO emissions at least equivalent to the total of the specified annual emission reductions required to be met by December 31, 1995. (Clean Air Act Sec. 187(d) at ¶ 2187.)

Multistate Areas

The law provides that states containing a portion of a single CO nonattainment area which covers more than one state are to take all reasonable steps to coordinate air quality planning with other states sharing the nonattainment area. (Clean Air Act Sec. 187(e) at ¶ 2187.)

¶ 105 Particulate Matter*Classification*

Specific requirements are provided for PM-10 (particulate matter less than 10 microns in diameter) designations—areas identified as “Group I” areas (referenced to 52 *Federal Register* 29383, August 7, 1987), and areas that have recorded air quality monitoring data exceedances of the PM-10 National Ambient Air Quality Standard (NAAQS) before January 1, 1989, are designated nonattainment areas by law. All other areas are designated unclassifiable for PM-10 purposes pending redesignation.

Initially all PM-10 nonattainment areas will be classified as moderate, but EPA may redesignate to serious those areas which cannot practicably attain moderate status by the attainment date. Initially designated PM-10 moderate nonattainment areas must meet attainment standards by December 31, 1994, while areas designated as PM-10 moderate nonattainment in the future have six years after designation to meet the standards. Similarly, redesignated PM-10 serious nonattainment areas must meet attainment standards by December 31, 2001, while areas designated as PM-10 serious nonattainment in the future have ten years after designation to meet the standards. (Clean Air Act Sec. 188 at ¶ 2188.)

Waivers

Any requirement applicable to a serious area may be waived by EPA if it is determined that the anthropogenic sources of PM-10 do not

contribute significantly to the problem in the area. (Clean Air Act Sec. 188(f) at ¶ 2188.)

Milestones

A plan revision showing attainment is required to include quantitative emission reduction milestones to be achieved every three years until the area meets the standards. Such milestones are to provide for emission reductions adequate to achieve the standards by the applicable attainment date. (Clean Air Act Sec. 189(c) at ¶ 2189.)

¶ 106 SO, NO₂, and Lead

SIP submittal and attainment dates are set for areas that need to do additional planning to attain the sulfur oxide, nitrogen dioxide, and lead standards. Newly designated nonattainment areas must submit an attainment plan by May 15, 1992, and areas that have approved plans that do not now conform to the requirements of the new law must submit revised SIPs providing for attainment within five years. EPA, at its discretion, is authorized to require a state to designate any area as a nonattainment district with respect to lead emissions. (Clean Air Act Secs. 191 and 192 at ¶ 2191 and 2192.)

¶ 107 Indian Tribes

EPA is authorized to treat Indian tribes as states for Clean Air Act purposes and for providing financial assistance. EPA will promulgate regulations outlining the circumstances under which treatment as a state is appropriate for Indian tribes and procedures for approving tribal implementation plans. Tribes are eligible to receive grants by the inclusion of tribal air pollution control agencies in the list of agencies eligible to receive grants. (Clean Air Act Secs. 110 and 302 at ¶ 2110 and 2302.)

¶ 108 Miscellaneous Provisions

Transportation

By August 15, 1991 and periodically thereafter, EPA, after consultation with the Secretary of Transportation and state and local officials, is to update the transportation-air quality planning guidelines issued in 1978. (Clean Air Act Sec. 108 at ¶ 2108.)

Information Dissemination

All information concerning emission control technology is to be made available to the states and general public. Such information is to include all control technology information received through state plan provisions requiring permits for sources, including operating permit programs as well as new source permit programs. The clearinghouse, newly established by this legislation, is to include comprehensive data on reasonably available control technology (RACT), best available control technology (BACT), and lowest achievable emission rate technology (LAER) control requirements proposed or adopted in each state. (Clean Air Act Sec. 108(h) at ¶ 2108.)

Motor Vehicles

¶ 200

¶ 201 Introduction

Motor vehicles are the single largest source of ozone and carbon monoxide emissions in the United States today. Twenty years after the birth of the environmental movement, cars, buses, and trucks are still responsible for 50% of the smog and 90% of the CO that is prevalent in urban areas. Over the past 13 years, many attempts have been made to strengthen the Clean Air Act, but the subject has inevitably pitted region against region, industry against industry, and advocates of economic growth against environmentalists.

Oddly enough, the tightening of vehicular pollution restrictions came about not so much because of concerns over auto emissions *per se*, but rather due to the grounding of the *Exxon Valdez* in early 1989 and the subsequent rash of widely publicized unrelated tanker oil spills. The “green” movement, resurrected by the *Valdez* incident, soon turned its attention to the broader issue of air pollution—which had been lying in wait on the back pages under the banners of acid rain, global warming, and ozone depletion. Automobiles, as the most visible polluters of the atmosphere, were wrapped into the then-pending clean air legislation. Staffers on Capitol Hill began writing new tailpipe emission standards, and supporters of gasohol managed to get into the act with “reformulated” and “oxygenated” gasoline requirements. Congress—after months of compromises, compromise breakdowns, offers, counteroffers, and new compromises—on the last day of a three week-long delayed session marked by debate that more often than not extended long into the night, finally passed comprehensive vehicular pollution provisions of the Clean Air Act Amendment of 1990.

Vehicular pollution is caused by the transfer of the energy inherent in fuel into mechanical power, typically through an internal combustion engine. There are two ways of going about reducing these emissions—purifying the fuel input and cleaning up the exhaust output—and Congress, in rewriting the Clean Air Act, decided to work both ends against the middle. Refiners (and importers and blenders), on the one hand, will be required to sell only clean, or “reformulated,” gasoline in specific areas of the country, while auto makers must add new equipment to their vehicles so that they meet more stringent emission standards.

Reformulated gasoline, which strictly speaking includes oxygenated supplies, has been defined by Congress to encompass fuels that contain an increased dose of oxygen and reduced amounts of heavy metals and benzene. Reformulated gasoline is essentially a fuel designed to decrease atmospheric ozone levels, while oxygenated gasoline is a lead-free fuel that, as its name implies, contains an oxygen additive such as ethane or methane. The use of oxygenated gasoline is expected to reduce CO emissions in targeted areas of the country. Where there is an overlap (a high ozone, high CO region), reformulated gasoline must contain the same percentage of oxygen as that applicable to oxygenated gasoline.

¶ 201

¶ 202 Reformulated Gasoline

Reformulated gasoline must be sold on a phased-in basis between 1995 and 2000 to the exclusion of all other gasoline in nine major metropolitan districts of the country that registered the highest ozone levels—"ozone nonattainment areas"—during the period 1987 through 1989. The nine metropolitan districts include Los Angeles, Baltimore, Chicago, Houston, Milwaukee, New York City, Philadelphia, San Diego, and Hartford. In addition to the nine primary target regions, other areas may be subjected to gasoline sales restrictions if comparable designations are requested by state governors. (Clean Air Act Sec. 211(k) at ¶ 2211.)

Baseline Vehicles

As a general rule, reformulated gasoline must be lead-free, low on benzene, contain at least 2% oxygen, and include deposit-preventing additives. Emissions cannot exceed those of "baseline" vehicles that are representative of model year 1990, and periodic comparisons between the reference vehicles and newer models will be performed by the Environmental Protection Agency. Three variables will influence the comparison: the different fuels, the test cars, and the (hopefully declining) emissions performance over time. The intent, however, is for the latter two of these variables to be held constant so that only changes in the composition of the fuel show up in the results.

An emissions test in 1991, for example, using a one-year-old 1990 vehicle, may meet the standard and be the basis for huge investments in refining facilities to produce the new gasoline. Three years later, again using the 1990 vehicle, now older and dirtier from an emissions standpoint, the same reformulated gasoline might fail the test.

Comparing results derived in one year from baseline vehicles just off the assembly line with those derived in later years from old baseline cars could be seen as unfair. Each refiner, blender, and importer will, therefore, be allowed to "lock in" on tests successfully performed at one point in time with the baseline vehicles, and thereafter cannot have their investments imperiled by different and worse results apparently owing to an aging baseline fleet.

Chemical identity within reasonable tolerances to a successfully tested fuel is the key; continuing successful tests on an aging and increasingly unpredictable fleet are not.

Representative model year vehicles are to be chosen so that EPA need not assemble and maintain an inordinately large fleet of cars somehow representative of all cars (all models and makes) on the highways in 1990. (Clean Air Act Sec. 211(k)(8)(E) at ¶ 2211.)

Formula/Standard

Refiners, in producing reformulated gasoline, have a choice of sorts: They may comply with either a set formula or a performance standard, whichever is more stringent.

Under the formula, the product must be no more than 1% benzene and 25% aromatics (benzene, toluene, and xylene) by volume, be lead-free, contain at least 2% oxygen by weight, and include unspecified additives to prevent the accumulation of deposits in engines and fuel systems.

¶ 202

Under the performance standard, emissions of toxic air pollutants must be 15% below that registered during the baseline tests, with the standard increased to 25% in the year 2000 and thereafter (unless lowered by EPA to 20%). During the high ozone season, emissions of volatile organic compounds must be reduced by the same percentages. (Clean Air Act Sec. 211(k)(3) at ¶ 2211.)

Cost Considerations

The law will require EPA to consider the overall cost of the emission reductions (estimated at 4¢ to 6¢ per gallon) and its effects on the nation's energy supply. Reformulated gasoline is not an "at-any-cost" program, and is not to be administered in a way that results in pump price increases that are significantly in excess of that estimate. Given that demand for gasoline is inelastic, and a history of small shortages (or even threats of shortages) has resulted in inordinate price increases at the pump, the program is not designed to be carried out in a manner that permits even modest physical shortages of refining and oxygenate capacity, or modest disruptions in deliveries to the nine large ozone areas, if those shortages or disruptions result in unacceptable price hikes to ultimate consumers at the retail pump.

Where it is technically infeasible to meet the nitrogen oxide standards with reformulated gasoline, the standard may be adjusted. Examples of technical unfeasibility are processes that in principle are available but cost \$10 billion or that require physical conditions comparable to those on the surface of the sun. More down to earth are instances where a cost-effective chemical process exists in the laboratory but there is insufficient time to bring it up to a level that would supply the affected cities, or scientific data may be lacking and may require years to compile. (Clean Air Act Sec. 211(k) at ¶ 2211.)

Nitrogen Oxide

EPA may not rewrite the rules in making an adjustment in NO_x requirements and may not completely prohibit the use of benzene or other aromatics. The NO_x cap does not strictly require reductions in emissions: they may be averaged. If there are five baseline cars and three show slight reductions, one no change, and the other a slight increase, EPA may find that the standards are satisfied. Requiring no increase from any of the vehicles under all operating conditions is a perfect example of how EPA, by extremely demanding test protocols, could in effect convert the NO_x cap into a NO_x reduction requirement into an unintended prohibition. And, large VOC reductions gained through an oxygen content that as a side effect "breaks" the NO_x cap cannot subsequently be used as the marker that must be equaled or exceeded under the more stringent test in the formula/standard test, above. (Clean Air Act Sec. 211(k)(2)(A) at ¶ 2211.)

Aromatics

EPA cannot take advantage of significant variations in the physical and chemical properties of the many different kinds of aromatics to "rig" a formula gasoline by using an unrepresentative selection of aromatics with unusually low volatility or toxicity. (Clean Air Act Sec. 211(k)(3) at ¶ 2211.)

Multiple Categories

Many chemicals or compounds are subsets of each other. Benzene is an aromatic hydrocarbon that will satisfy the benzene cap and also count toward required reductions in aromatics and toxics, as appropriate. Benzene is also a VOC and a toxic air pollutant, so a reduction in benzene should also result in some reduction in the evaporative, running, and refueling tests. Positive side-effects all count for measurement purposes.

Although reformulated gasoline may not as a general rule contain heavy metals, that requirement may be waived if it can be shown that the end product will not emit more toxic air pollutants, on an aggregate or cancer-risk basis, than would be emitted by another reformulated gasoline that does not contain the metal additive. The general ban is aimed at the potential for producing a reformulated gasoline that, while not containing specifically cited metals, includes other metal additives. Mere trace amounts of metals that are part of the composition of crude oil and found in 1990 baseline fuels may be included in acceptable gasolines. (Clean Air Act Sec. 211(k)(3) at ¶ 2211.)

Trade-Offs

Aggregation is specifically permitted. A reformulated gasoline will qualify even if it has some toxics and VOCs that increase from the baseline. Aggregate decreases on a mass basis of all toxics and all VOC's are the standard, so that a small decline or even a rise in one or two will not disqualify the product so long as the declines offset or at least equal the increases. EPA must set a reasonable time period during which the average specifications can be met. The winter season for oxygenated gasoline is acceptable, or a three-month quarter for reformulated gasoline. An exact time frame is not specified, but days, hours or minutes would be considered unreasonable. (Clean Air Act Sec. 211(k)(4)(A) at ¶ 2211.)

Pooling

Pooling is averaging within a single company. In view of the chemical differences among different grades and octanes of gasoline, from premium to regular, EPA is expected to give primary suppliers "maximum reasonable flexibility" to pool their blends. It would be impermissible for EPA to deny pooling, for example, in the following case:

—Refiner A has a premium reformulated gasoline with 2% benzene, a mid-grade with 0.6% benzene, and a regular with 0.4% benzene. Each grade makes up one-third of A's volume of sales in the same period of the previous year, and is projected to do likewise in the current year. Pooled together, A's gasoline meets the requirements. But if sales of premium turn out to be larger than expected, EPA can require greater offsetting reductions in the immediately following period.

Continuous, universal physical testing to determine that pooling complies with the standard is not contemplated, but primary suppliers are expected to conduct periodic compliance tests and maintain records suitable for EPA inspection. Intracompany pooling procedures established under certification procedures would be expected to supersede any more formal crediting requirements.

Many refiners may prefer the more informal, intra-company approach; in part, this results from the obstacles that may hamper larger, EPA-regulated, inter-company credit programs, which may entail greater bureaucratic and logistic difficulties. That is why the credit programs are not mandatory and cannot be imposed on unwilling companies. By contrast, pooling arrangements are expected to be approved by EPA as a matter of course. (Clean Air Act Sec. 211(k)(4)(A) at ¶ 2211.)

Credits

There are three categories of credits: one for oxygen, aromatics, and benzene in reformulated gasoline; one for conventional gasoline (for antidumping purposes, below); and one for oxygen in oxygenated gasoline. Categories one and three operate only within a specific ozone or CO nonattainment area, while antidumping covers the nation as a whole. The overall goal, as with other trading provisions, is to provide a least-cost option that allows the cheapest oxygen suppliers or the cheapest aromatics producers to overachieve and handle a disproportionate share of the burden. Less efficient competitors can then buy credits and thereby contract out some of the work to their more efficient brethren. By the same token, low grades of one refiner's gasoline may overachieve on aromatics reductions to offset excesses from others, or one of a company's refineries may overachieve on benzene; in either or similar cases, averaging is allowed.

Averaging between or among companies might be done as a variation of the following example: Refiners A and B each supplies half the reformulated gasoline in a covered area. A's weighted average benzene content in the second quarter of 1996 is 1.5%, and B's is 0.5%. With credits, the area meets the standard. In the example, however, only a joint certification of both refiners' gasolines would render A's product legal, and B would have to guarantee that its lower benzene fuel would continue to be available in the affected market. (Clean Air Act Sec. 211(k)(4)(a) at ¶ 2211.)

Certification

EPA must act on a petition for approval of sales of a new reformulated gasoline within 180 days of submission. While failure to do so will result in automatic certification of the fuel, the agency can subsequently nullify such an approval. Such a subsequent reversal could jeopardize large investments that were presumptively legal when made, and could create severe fuels shortages and economic hardships in affected areas. Accordingly, such reversals should be rare or nonexistent, and based only on extraordinarily compelling reasons. At the very least, any sales of gasoline made between the time of the automatic approval and the subsequent reversal will be legal. (Clean Air Act Sec. 211(k)(4)(A) at ¶ 2211.)

Antidumping

EPA must, by 1994, act to prevent companies from causing more emissions in attainment areas than they did during 1990. These rules are expected to be designed to prevent sellers of gasoline from "dumping" emission-causing fuels in regions outside of regulated nonattainment areas. (Clean Air Act Sec. 211(k)(8) at ¶ 2211.)

Enforcement

Refiners, blenders, and importers who wrongfully represent conventional gasoline as reformulated supplies for sale in a restricted area will be subject to civil penalties of \$25,000 a day. These entities will not, however, be held liable for wholesale sales of their conventional gasoline in nonattainment areas that are not intended for resale in attainment areas or by retailers outside of their control. (Clean Air Act Sec. 219 at ¶ 2219.)

¶ 203 Oxygenated Gasoline

Oxygenated gasoline (2.7% oxygen), which is designed to counter carbon monoxide emissions, will be required to be sold—to the exclusion of all other gasolines except reformulated supplies—to motorists in 44 areas (waivers could reduce that number) that exceed the CO nonattainment standards. The restrictions are applicable only during the period when an area is prone to experience high concentrations of carbon monoxide, such as during the winter months. An “area,” for the purposes of this requirement, which is effective October 1, 1992, encompasses the larger of a metropolitan statistical area or a consolidated MSA. Waivers are available if it can be demonstrated that the use of oxygenated fuels would interfere with the attainment of a pollution control standard other than CO, if the carbon monoxide can be shown to be attributable to other than vehicle sources, or if there is a serious problem with the supply or distribution of oxygenated fuels. Areas not under waivers that fail to meet the attainment standards may be required to sell only gasoline with a 3.1% oxygen content. (Clean Air Act Sec. 211(m) at ¶ 2211.)

Overlaps

The 2.7% requirement overrides the 2% requirement applicable to reformulated gasoline in those cities that are subject to overlapping oxygenated and reformulated requirements. Exception: all oxygen waivers granted under the reformulated gasoline program apply to oxygenated gasoline, since oxygenated gasoline is actually a type of reformulated gasoline.

The 2.7% level was chosen in part to provide an even opportunity for competition between the two major oxygenates, methyl tertiary butyl ether (MTBE in the trade) and ethyl alcohol (ethanol), but any oxygenate that otherwise meets the applicable standards may be used. (Clean Air Act Sec. 211(m) at ¶ 2211.)

Waivers

Waivers are available on an area-by-area basis for lack of distribution or supply capacity. Potential shortage situations that threaten to break through a theoretical price ceiling may also warrant a waiver. In considering applications for waivers, EPA should:

—Determine the demand for and expected production capacity of oxygenates in the appropriate area, taking into consideration transportation logistics and the minimum time requirements for development of the necessary supply and distribution infrastructure.

—Evaluate the demand for oxygenates outside the covered area and the effect that competition between covered and non-covered areas will have on supplies and price.

¶ 203

—Provide for a reasonable margin of error in supply estimates to minimize the chances of shortages in covered areas.

—Prevent any economically wasteful or irrational actions that might be associated with an early effective date for any covered area, such as requiring the construction of storage tanks in a region that might be adequately supplied from outside sources in the not-too-distant future.

—Make a list of priority covered areas based on the severity of nonattainment and the role of motor vehicles in contributing to nonattainment status.

—Publish an accounting of areas to be covered each year with enough of a lead time so as to assure the availability of the necessary infrastructure by the effective date of the designation.

—Provide for reconsideration of area designations if supply shortages are likely to prevent compliance by the effective date.

Partial waivers will not be granted. Too many logistical and refining problems could arise if weaker oxygen concentrations, partial geographic exceptions, or relatively short time frames were permitted. In addition, the legislators noted that differing combinations of gasoline additives are already available to meet the oxygenation model, and further Balkanization of the gasoline market through partial waivers (and more specified products) could disrupt the refining industry and wreak havoc with pipeline transportation of incompatible products. Refiner-specific or subset-specific waivers are also prohibited. If, however, a price spike in, say, mid-winter threatens to create a shortage, EPA may allow a waiver without regard to the prohibition against partial waivers. (Clean Air Act Sec. 211(m) at ¶ 2211.)

Imports

There are no restrictions on the importation of oxygenated or reformulated gasoline, or on their necessary components, but—given America's dependence upon foreign oil—note was made by the legislative conference committee of the inadvisability of simply trading one type of fuel dependency for another. EPA, in making its waiver decisions, was counseled by the conferees not to count on imports to fill apparent domestic gaps. (Clean Air Act Sec. 219 at ¶ 2219.)

Enforcement

The ban on sales of unoxxygenated gasoline does not strictly preclude all transactions within a covered area so long as the conventional gasoline to be sold within a nonattainment area is intended for use in other regions. (Clean Air Act Sec. 219 at ¶ 2219.)

¶ 204 Price and Allocation Controls

EPA, in its administration of the oxygenated and reformulated gasoline program, was counseled by the legislative conference committee to avoid oil price and allocation controls similar to those administered by the Department of Energy during the 1970's. Admittedly, EPA's decisions will have an impact on prices: its decisions on new refinery units, methane plants, capacity waivers, technical feasibility, and enforcement are likely to force costly problems on all segments of the gasoline refining and

marketing sectors of the economy. Regulatory decisions can create delays and, in turn, restrict the supply of reformulated and oxygenated gasoline. Since control over supply equals control over price, EPA was advised by the legislators not to abuse its discretion in this regard.

¶ 205 Tailpipe Emissions

Auto makers are required to reduce tailpipe emissions of hydrocarbons and nitrogen oxides by 35% and 60%, respectively, beginning with 40% of the vehicles sold in 1994, 80% in 1995, and 100% thereafter. Comparable reductions are required for vans and pickup trucks. An additional cutback in automobile emissions, another 50% on top of the initial reductions, will be required after the year 2003 unless EPA finds that the more stringent standard is not necessary, technologically feasible, or cost effective. States, at their option, may continue to follow either the federal air quality standards or those of California, but they may not alter either so as to establish a third category. (Clean Air Act Sec. 177 and 202 at ¶ 2177 and 2202.)

Refueling/Evaporative Emissions

All new light-duty vehicles manufactured in and after the fourth model year after the model year in which the standards are promulgated (with a three-year phase-in) must be equipped with onboard systems for the control of evaporative emissions during refueling. Capture must be 95% efficient.

EPA is required to issue rules (referenced to best available technology) to control evaporative emissions, including running losses, from all new gasoline vehicles by August 15, 1992 (there is provision for a 15-month extension of the deadline). (Clean Air Act Sec. 202 at ¶ 2202.)

Carbon Monoxide/Cold Temperatures

EPA is to set CO emissions standards of no more than 10 grams per mile for cars and light-duty trucks operating at temperatures below 20 degrees, beginning with the 1994 models. Cold start emissions limits will have a three-year phase-in, with 40% compliance required for 1994, 80% for 1995, and 100% thereafter. If, as of June 1, 1997, six or more of the nonattainment areas (not counting Oshkosh, Wisconsin, and Steubenville, Ohio) fail the cold start test, the CO limits for model year 2002 will be reduced to 3.4 grams per mile for cars and to 4.4 gpm for light-duty trucks. (Clean Air Act Sec. 202 at ¶ 2202.)

Related Toxics

EPA has until mid-1995 to issue rules on hazardous vehicle pollutants. These provisions, which are meant to prohibit the inclusion of hazardous substances in motor vehicle fuels, are not intended to be expanded into standards that would create an autonomous type of reformulated gasoline. (Clean Air Act Sec. 202 at ¶ 2202.)

Diagnostics Systems

On-board diagnostics systems warning of malfunctions in automotive catalytic converters and oxygen sensors will be required on all cars and light trucks beginning in 1994 or, at the discretion of EPA, beginning in

1996. States will be required to inspect these systems as part of their pollution control programs. (Clean Air Act Sec. 202 at ¶ 2202.)

Testing and Certification

EPA is required to adopt testing and certification procedures for 1994 cars and trucks (a 10% failure rate could be cause for a recall) on the basis of actual driving conditions, including type of fuel, temperature, acceleration, altitude, and short (less than 30 minutes) waiting periods before the tests are conducted. (Clean Air Act Sec. 206 at ¶ 2206.)

Warranties

Warranties for automotive pollution control equipment included on 1995 models must be for a minimum of two years/24,000 miles, except that the warranty for major emission control devices, such as catalytic converters, onboard diagnostic devices, electric emissions control units, and new major components not in general use on vehicles must be for a minimum of eight years/80,000 miles. (Clean Air Act Sec. 207 at ¶ 2207.)

In-Use Compliance/Recall

Manufacturers whose vehicles fail to meet the pollution control standards may be required to recall and modify the vehicles in order to conform to the standards. Recalls for defective emissions equipment may be required for varying amounts of time depending upon the automotive model year. (Clean Air Act Sec. 207 at ¶ 2207.)

Information Collection

EPA can enter car makers' facilities and examine their records. The information collected, with the exception of trade secrets, can then be made public. (Clean Air Act Sec. 208 at ¶ 2208.)

Non-road Vehicles

EPA has preemptive authority over state law to establish emissions standards for locomotives and for new farm and construction equipment rated less than 176 horsepower. (Clean Air Act Sec. 211(a) at ¶ 2211.)

Heavy Duty Trucks

The standards for averaging, banking, and trading of emissions standards for heavy duty trucks is left up to the discretion of EPA, except for NO_x, which is tied to the EPA regulations scheduled to take effect in 1991 and 1994, then tightened in 1998 to limit emissions to not more than 4 grams per brake horsepower hour. (Clean Air Act Sec. 202 at ¶ 2202.)

Urban Buses

Beginning in 1994, new buses operating in large urban areas more than 70% of the time using any fuel must cut their particulate emissions by 50% compared to conventional heavy duty vehicles. EPA may decrease the reduction to 30%. On the basis of annual tests, if EPA determines that 40% or more of the buses are not meeting the applicable standard, all new buses in the noncompliance area must operate exclusively on low-polluting fuel (methanol, ethanol, propane, natural gas, or a comparable fuel) in accordance with a five-year phase-in schedule. (Clean Air Act Sec. 219 at ¶ 2219.)

Enforcement

Any persons, including corporate persons, who manufacture a vehicle that is not in compliance with the emission standards or who render inoperative pollution control devices installed by the manufacturer will expose themselves to fines of up to \$25,000 (for car makers) or \$2,500 (for individuals tampering with the emission equipment). (Clean Air Act Sec. 203 at ¶ 2203.)

¶ 206 New Fuels/Misfueling/Volatility

New Fuels

Refiners that want to introduce a new fuel or fuel additive that is not substantially similar to what was certified in 1975 or later years must obtain EPA permission to do so. (Clean Air Act Sec. 211 at ¶ 2211.)

Misfueling

It is illegal to introduce leaded gasoline into any 1990 or later model car or into any prior year model car labeled "unleaded gasoline only." Beginning October 1, 1993, it will be illegal to introduce or allow the introduction into any diesel fueled motor vehicle fuel that contains a concentration of sulfur in excess of 0.05% by weight or that fails to meet a cetane index minimum of 40 of the equivalent alternative aromatic level as prescribed by EPA. For heavy duty trucks, the maximum sulfur content for model years 1991-1993 is 0.1% by weight. (Clean Air Act Sec. 211 at ¶ 2211.)

Fuel Volatility

Not later than during 1992, there will be a ban on sales of highly volatile gasoline (having a Reid Vapor Pressure in excess of 0.9 pounds per square inch) in nonattainment areas during the high ozone season as defined by EPA (generally May 15—September 15). (Clean Air Act Sec. 211 at ¶ 2211.)

¶ 207 Clean-Fueled Vehicles: Fleets/California

Clean-fueled vehicles are those capable of running on methanol, ethanol, or mixtures of not less than 85% of either of the two (or other alcohol) with gasoline, hydrogen, natural gas, liquefied natural gas, electricity, or anything else that meets low-pollution standards. (Clean Air Act Sec. 241 at ¶ 2241.)

Fleets

Clean-fueled fleet programs must be established by 1998 in all serious, severe, or extreme ozone nonattainment, and carbon monoxide nonattainment (CO levels of 16 parts per million-plus) areas with populations of 250,000 or more as measured by the 1980 census. A "fleet" is defined as 10 or more vehicles that are owned by a single person and capable of being refueled at a central station, but not police or emergency vehicles, automobile dealerships, car leasing operations, or vehicles that are garaged at personal residences each night under normal circumstances.

The fleet program adopts California low-emission standards in 1998 for vehicles weighing less than 6,000 pounds, provided these vehicles are available in California. In the year 2001, the standards will be required to be met without regard to the availability of California vehicles.

¶ 206

The tailpipe standard for these vehicles is tied to California low-emission standards in effect for the California pilot program (below). An alternative is the “wrap around” standard (applied to exhaust, evaporative, and refueling emissions combined) that would meet an equivalent test using reformulated gasoline. Heavier vehicles (to 26,000 pounds) are required to meet a combined NO_x hydrocarbon emission standard of 2.15 grams per brake horsepower hour, a 50% reduction from the anticipated norm for 1994. EPA may reduce that percentage to 30%. (Clean Air Act Sec. 245 at ¶ 2245.)

California

Beginning in 1996, 150,000 clean-fueled vehicles must be produced for sale in California annually until 1999, when the minimum rises to 300,000. These vehicles must meet California’s transition low emission standards (0.125 gpm nonmethane organic gas, 0.4 gpm NO_x, 3.4 gpm CO, and 0.015 gpm formaldehyde). The standard changes in 2001, halving the first two and leaving the last two as is. The state must assure that enough clean fuels are produced to supply these vehicles or EPA will set up an alternate program. (Clean Air Act Sec. 249 at ¶ 2249.)

Air Toxics

¶ 300

¶ 301 Introduction

“Toxic air pollutants” is a catch-all phrase used to cover a wide variety of substances, most of which are not touched upon under other sections of the Clean Air Act. They are, one and all, hazardous to human health or to the environment. Hundreds of toxic pollutants — typically carcinogens, mutagens and reproductive toxins — are released into the air every year by chemical plants, oil refineries, sewage treatment plants, incinerators, and other major sources. According to an Environmental Protection Agency study released in 1989, major manufacturing sources released 2.7 billion pounds of toxic pollutants into the air in 1987. Actual emissions from all sources are likely to be two to five times as high. These substances include mercury, arsenic, asbestos, benzene, radionuclides, trichloroethylene (a solvent), perchlorethylene (dry cleaning fluid), ethylene oxide (a hospital sterilant), toluene (a constituent of gasoline), ethylene and propylene (building blocks of plastics), methyl isocyanate (the chemical released at Bhopal, killing 3,400 people), and dioxin; all together, they are believed to contribute to approximately 2,000 cancer deaths per year. While that may not appear to be a significant incidence rate, EPA estimates the cancer risk for persons living near large industrial facilities or in highly developed urban corridors to be perhaps greater than one in 10,000.

To protect public health and the environment, the toxic air pollutants provisions of the Clean Air Act have restructured existing law so that EPA will be able to regulate area source and industrial categories rather than concentrating on individual pollutants. Costs will now be considered as a factor in applying controls. EPA will establish a list of major source categories, such as chemical plants, oil refineries, and steel plants for the purpose of setting standards. Some 250 source categories will be regulated. This approach relies on technology-based standards rather than risk-based standards.

States, in accordance with the program, are allowed to develop and submit proposed regulations to EPA for the implementation and enforcement of emission standards. (Clean Air Act Title I, beginning at ¶ 2101.)

¶ 302 Maximum Achievable Control Technology (MACT)

The rewritten Clean Air Act contains provisions for the reduction of air toxics emission by over 75% within 10 years largely through application of maximum achievable control technology standards for each listed source category according to a prescribed schedule. These standards will be based on the best demonstrated control technology or practices used by regulated industry, which implies that the standards will at least in some cases be within the realm of economic reality. The law lists 189 toxic pollutants (both individual chemicals and chemical classes) and allows EPA to add or subtract items. EPA has an eighteen-month review period to respond to a petitioner seeking such an addition or removal. The burden of proof for listing or delisting a chemical is on the petitioner.

The agency's track record on additions has, to date, been less than exceptional. Prior to enactment of the congressional list, EPA regulated only coke oven emissions and seven specific toxic pollutants — mercury, beryllium, asbestos, vinyl chloride, benzene, radionuclides, and inorganic arsenic. (Clean Air Act Sec. 112(b) at ¶ 2112.)

Source Categories

By November 15, 1991, EPA must publish its own list of source categories that emit specified levels of these toxics and, in cases where a single source contributes more than one pollutant to the atmosphere, the agency must consider each pollutant as a separate emission. Major sources (those that emit over 10 tons per year of any one pollutant on the list or 25 tons of any combination of toxics from an entire site), and area (small) sources (e.g., gas stations, dry cleaners) are specifically covered by the rules. Lesser emission quantities and different criteria can be used by EPA to alter the definition of "major sources." By 1995, EPA must list enough area sources to control toxic pollutants that account for 90% of the emissions of the 30 pollutants on the list which cause the greatest public health risk, and the agency must propose a national urban air toxics strategy to decrease by 75% their cancer risks. The reductions must be reported at eight- and 15-year intervals.

In addition, by November 15, 1995, EPA must list categories and subcategories of sources of seven specific pollutants (alkylated lead compounds, POM, hexachlorobenzene, mercury, polychlorinated biphenyls, 2,3,7,8-tetrachlorodibenzofurans, and, last but not least, 2,3,7,8-tetrachlorodibenzo-p-dioxin) to ensure that sources that account for at least 90% of the aggregate emissions of each pollutant are subject to technology-based standards (either the maximum degree of emission reduction or a technology-based standard based on an ample margin of safety using the health threshold level, if there is one) by November 15, 2000.

EPA can also be petitioned to remove source categories from the source category list. If a petitioner demonstrates that all sources within a source category pose less than a 1 in 1,000,000 risk of cancer to the most exposed individual and an ample margin of safety for non-cancer effects, the agency must remove the source category from the list.

Alternative area source control programs (consisting of generally available control technology or management practices) may be used where the cost of MACT technology is too high. EPA will monitor some 400 air toxics in several urban areas to better identify the source problem. In addition, EPA must set aside at least 10% of the funds available to states to support areawide strategies developed by state and local air pollution control agencies to reduce risks from area source emissions in a particular urban area. (Clean Air Act Sec. 112(a), (c), and (k) at ¶ 2112.)

Emission Reductions

The law permits emission reductions to be phased in over 10 years, with standards for 40 source categories plus coke ovens required by November 15, 1992 and 25% of the remainder of the listed toxics within four years. An additional 25% are to be subject to the standards within seven years, and the final 50% are to be included in the program by the end of the 10-year target. If EPA misses this schedule, all sources that would have been subject to a standard that EPA failed to promulgate on

time must be permitted at a level of control, certified by an independent engineer as the best control, within eighteen months of when the promulgation was scheduled. Priority determinations in setting these standards reflect the adverse effects of the pollutants on human health and the environment, the quantity and location of the hazardous air emissions from each category, and the efficiency of grouping categories. Sources must generally comply with MACT standards within three years after they are issued, although one-year extensions are possible for existing sources.

MACT standards are focused on a specific portion of a contiguous facility, which might range from an identifiable subcategory of a single facility to the entire facility. (Oil and gas well emissions, however, are not to be aggregated and generally cannot be listed as an area source category.) A source that makes a voluntary reduction of 90% (for organics), or 95% (for particulates) below 1987 emission levels, will be granted a six-year extension of the MACT compliance deadline in addition to the three years already allowed. Voluntary reductions must come from the same part of the plant site that is covered by the applicable MACT standards. (Clean Air Act Sec. 112 (e), (i), and (j) at ¶ 2112.)

New and Existing Sources

In setting standards, the law determines which sources are existing and which are new. New sources must meet emission-reduction standards as strict as those achieved by best-controlled similar sources. Existing sources must at least meet the average emission limitation achieved by the best-performing 12% of existing sources, excluding those sources which meet a lowest achievable emission rate that applies to the source category within 18 months of the date that the standard is proposed, or 30 months from the date it is made final, for categories or subcategories with 30 or more sources or the average emission limitation achieved by the best-performing five sources for categories or subcategories with less than 30 sources. For existing sources, the standards become applicable 90 days after their effective date, although a compliance waiver of up to two years can be granted by EPA. After a MACT is in place, if a substantial carcinogenic risk for a pollutant remains, EPA must tighten the standard eight years after it is initially promulgated. (Clean Air Act Sec. 112(d) at ¶ 2112.)

¶ 303 Residual Risk Standards

Report to Congress

By November, 1996, the EPA Administrator, after consulting with the Surgeon General, must report to Congress on the methods for calculating the public health risks that still remain from regulated sources, the public health significance of these risks, and the technologically and commercially available methods and costs for reducing them. The report must also include the actual health effects on individuals living near sources, the risks presented by background concentrations of hazardous air pollutants, and any negative health or environmental consequences to the community that could result from efforts to reduce such risks. (Clean Air Act Sec. 112(f) at ¶ 2112.)

Standards

If Congress does not act on any of the Administrator's recommendations, EPA must set residual risk standards for cancer-causing pollutants whenever the risk is greater than one in one million to the person in the general population most exposed to an emission from a source in the category. These residual risk standards must be promulgated eight years after MACT standards are established (except for those established by November 15, 1992, which have a nine-year deadline). When determining the levels that protect public health with an ample margin of safety, EPA will consider the combined risks of all sources that are located within the same major source. The Agency has decided to establish standards to protect the most exposed individual in the population to a risk of cancer below 1 in 10,000 and the majority of the exposed population to a risk of less than one in one million (Clean Air Act Sec. 112(c) and (f) at ¶ 2112.)

¶ 304 Accidental Chemical Releases

Accidental chemical release prevention is also covered by the Clean Air Act. EPA must first develop a list of at least 100 extremely hazardous substances (those that cause death, injury, or have other serious adverse effects on human health or the environment) and their threshold quantities for priority attention. This initial list must be published by November 15, 1992. The list must be based on the severity of any acute adverse health effects associated with accidental release, the likelihood of accidental release, and the potential magnitude of human exposure to accidental releases. It must include chlorine, anhydrous ammonia, methyl chloride, ethylene oxide, vinyl chloride, methyl isocyanate, hydrogen cyanide, ammonia, hydrogen sulfide, toluene diisocyanate, phosgene, bromine, anhydrous hydrogen chloride, hydrogen fluoride, anhydrous sulfur dioxide, and sulfur trioxide. The Act then requires the owner or operator of any facility handling these substances to operate safely and requires owners to complete an engineering analysis of the facility to identify public health hazards and implement risk management plans to prevent accidents.

Hazard assessments must include basic information on the source, the units at the source facility that contain or process regulated substances, operating procedures, and the population of nearby communities. They also must contain an identification of the potential points of accidental release, a history of any earlier accidental releases, information on the toxicity of regulated substances that are present, and a determination of potential exposure for all persons who would be put at risk in the event of an accidental release.

EPA can promulgate accident prevention, detection and correction regulations covering the design, operation, training and maintenance at facilities handling extremely hazardous substances. EPA may issue orders to mitigate the potential for accidents at particular facilities and seek enforcement orders in a U.S. district court.

An independent five-member chemical safety board is established to investigate chemical accidents (in the way the National Transportation Safety Board investigates transportation accidents) and make recommendations to EPA on measures to reduce risks of accidents. The board has no regulatory authority of its own except to require reports from the owners of

sources where accidents occur. (Clean Air Act Sec. 112(r) at ¶ 2112 and Clean Air Act Amendments of 1990 Sec. 304 at ¶ 3304.)

¶ 305 Coke Oven Provisions

Technology-based emission standards for coke oven batteries must be established by December 31, 1992. Coke oven owners and operators have two options for meeting their Clean Air Act obligations. The first requires coke oven batteries to meet MACT requirements by the end of 1995 and residual risk emission standards by 2003. Owner/operators of coke ovens seeking an extension of the residual risk requirements must meet a special 8% leaking door MACT standard by 1993. By 1998, these coke ovens must meet an EPA-promulgated lowest achievable emission rate (LAER) standard. Any coke oven that does not meet this standard in 1998 must meet the residual risk standard in 2003 or cease operations. Only those coke ovens that meet the 1993 and 1998 standards will be granted the residual risk extension to 2020. By 2007, EPA must review the LAER standard, and if necessary revise it to reflect the lowest emission rate that can be achieved. The compliance date for the revised standard, if it is issued, is January 1, 2010. (Clean Air Act Sec. 112(d) and (i) at ¶ 2112.)

¶ 306 Other Provisions

Other areas covered by the toxic air pollutant provisions of the Clean Air Act include the following:

Solid Waste Incineration Performance Standards

Performance standards for solid waste incineration units with a capacity greater than 250 tons per day which burn municipal waste will be promulgated by November 15, 1991, while standards for solid waste incineration units with a capacity of less than 250 tons per day and units burning hospital, medical and infectious waste will promulgated by November 15, 1992.

Standards for solid waste incineration units burning commercial or industrial wastes must be proposed by November 15, 1993 and promulgated by November 15, 1994. EPA must also publish a schedule for promulgation of standards for other categories of solid waste incineration units no later than eighteen months after November 15, 1990. Numerical emission lists must be established for particulate matter opacity, sulfur dioxide, hydrogen chloride, nitrogen oxide, carbon monoxide, lead, cadmium, mercury, dioxins, and dibenzofurans. Performance standards and other requirements must be reviewed and revised by EPA within five years after promulgation and every five years thereafter.

EPA must also develop guidelines for existing units, to be enforced by either state or federal plan, which cover emission limits, monitoring, operator training, and permit requirements. (Clean Air Act Sec. 129 at ¶ 2129.)

Ash Management

Ash from solid waste incineration units burning disposable waste will not be regulated by EPA under the Solid Waste Disposal Act for two years. (Clean Air Act Amendments of 1990 Sec. 306 at ¶ 3306.)

Toxic Substance Deposits

The deposit of toxic substances such as mercury, PCB's, and pesticides from the atmosphere into the Great Lakes as well as into coastal waters will be monitored. At least one monitoring facility must be established at each of the five Great Lakes. EPA will investigate the sources and rates of the airborne deposits in these areas and evaluate any adverse effects on public health resulting from these deposits.

Specifically, by November, 1993, EPA must assess for Congress the contribution of atmospheric deposition to pollution loadings in the covered waters, the source of any pollution in the waters that is attributable to atmospheric deposition, and whether the pollution loadings contribute to exceedances of drinking water standards under the Safe Drinking Water Act or water quality standards under the Federal Water Pollution Control Act. By November 15, 1995, EPA must promulgate regulations to prevent serious adverse human health and environmental effects. (Clean Air Act Sec. 112(m) at ¶ 2112.)

Urban Air Toxics Research Center

A national urban air toxics research center will also be set up by EPA at a facility with research capabilities in epidemiology, oncology, toxicology, pulmonary medicine, pathology, and biostatistics. The center will be governed by a nine-member board appointed by the Speaker of the House, the Senate Majority Leader, and the President. (Clean Air Act Sec. 112(p) at ¶ 2112.)

¶ 401 Introduction

The acid rain provisions require the removal of 12.5 million tons of sulfur dioxide and nitrous oxide from utility sources (10 million tons of sulfur dioxide and 2.5 million tons of nitrous oxide), or roughly half, by 2000. They place an absolute cap on the total amount of these pollutants that can be emitted after the year 2000. For every new ton of these emissions, one will have to be reduced from another source. The mechanism to achieve this will be a system of allowances that can be bought and sold as they are needed.

While large plants will be subject to strict emissions standards, the law also addresses the small sources that together cause most air pollution. The permitting and enforcement sections make it clear that emissions must be controlled, but also provide for technical assistance and eased permitting procedures for small businesses. (Clean Air Act Sec. 401 at ¶ 2401.)

¶ 402 Allowance Program for Existing and New Units

A system of marketable allowances is the compliance linchpin for sources subject to the emissions limitations. When the regulatory program is fully implemented, the ultimate measure of compliance for a source will be its ability to match its actual annual emissions with the number of annual allowances it holds. (An "allowance" is a license to emit one ton of sulfur dioxide during any given calendar year.) Financial and emissions limitation obligations are imposed on the owners and operators of units failing to hold enough allowances to match their units' emissions.

Beginning January 1, 2000, at the start of Phase II of the program (see ¶ 406), EPA cannot allocate annual allowances to emit sulfur dioxide that would result in total emissions of more than 8.9 million tons. Every affected source must have a continuous emission monitor; allowances are allocated to sources by EPA and traded among sources. At the end of every year (after an appropriate verification period), actual annual emissions must match actual annual allowances.

An allowance is what is commonly referred to as an emission permit or marketable emission reduction credit. It provides affected sources with the authority to emit one ton of sulfur dioxide, and these sources cannot emit more sulfur dioxide than they hold allowances for.

After January 1, 2000, it will be unlawful for a new utility unit to emit an annual tonnage of sulfur dioxide in excess of the number of allowances held for the unit. These new units will not be eligible for allocation of sulfur dioxide allowances unless they are subject to Phase II sulfur dioxide requirements. New units can obtain allowances from any source, however. If an owner or operator violates this provision, he will be liable for penalties (see ¶ 412).

Sources can comply with this rule through one of several methods:

- By reducing emissions (through the installation of pollution control equipment, fuel switching, or conservation) to the level of allowances it holds;
- By obtaining additional allowances to cover its emissions;
- Substitute alternative plants in Phase I;
- Pool emissions reduction requirements across two or more affected units; or
- Craft compliance strategies using limited time extension provisions. (Clean Air Act Sec. 403 at ¶ 2403.)

Allowance Holding Requirement

Affected sources are required to hold sufficient allowances to cover their level of emissions. Allowances cannot be used prior to the calendar year for which they are allocated; sources cannot exceed emissions limitations provided in the law unless the owner or operator obtains and holds additional allowances to emit excess tons of sulfur dioxide. However, the fact that an affected source holds excess allowances does not entitle it to exceed the National Ambient Air Quality Standard limits. (Clean Air Act Sec. 403(g) at ¶ 2403.)

Cost of the Program

The allowance program allocates the costs of achieving the required reductions in emissions of sulfur dioxide and nitrous oxides among the different sources of acid rain pollution. (Clean Air Act Amendments of 1990 Sec. 407 at ¶ 3407.)

Emissions Limitation

On a per-unit basis, it is unlawful for a unit's sulfur dioxide emissions to exceed the number of allowances held for the unit, which renders the number of allowances held for the unit the legal emissions limitation requirement for the unit. The limitations go into effect if the allowance system does not work. Once the allowances and allowance regulations are issued and the tracking system is in place, the emission limitations will be null and void. The only operative requirement is that allowances match emissions.

The owner or operator of each unit that must meet a sulfur dioxide tonnage-based emissions limitation will receive annual allowances equal to the tons of annual emissions it is permitted to emit. To demonstrate compliance, the owner or operator must submit to EPA continuous emissions monitoring data and allowances allocated for that year, or remaining from previous years, that equal the unit's emissions. (Clean Air Act Sec. 403(a) at ¶ 2403.)

Allowances Allocated to Clean Utility Companies

Allowances are allocated to clean utility companies based on their allowable 1985 emission rate, which means the rate that is contained in their federally enforceable permit. The allowable 1985 rate is the federally enforceable emissions limitation for sulfur dioxide and nitrous oxides applicable to a particular unit in the year 1985. While the federally enforceable emissions limitations are expressed in a variety of different ways in state implementation plans, the allocable rate is virtually always

higher than the actual emissions rate achieved by the unit in question. This is because coal and other fuels vary in sulfur content within a given coal seam or energy source. Thus, utilities routinely burn coal or other fuels that are rated below their allowable emission rate in order to provide a margin of safety so violations of the allowable rate do not occur.

The definition of allowable 1985 emission rate cannot be interpreted to mean the maximum actual emission rate achieved by the unit in question during 1985. To base the allocation of allowances on a unit's actual emission rate would reduce its allowable emission rate and require utilities to switch to either lower sulfur fuels or to add further technology controls or even to buy allowances from other sources. (Clean Air Act Sec. 402(18) at ¶ 2402.)

Legal Obligations of Owners and Operators

The owners and operators of the units subject to the emissions limitations have an absolute legal obligation to meet those limitations. Such an obligation is sufficient to trigger liability under the Clean Air Act or any other applicable law. (Clean Air Act Sec. 411 at ¶ 2411.)

Transfers of Allowances

If implemented as intended, the market-based sulfur dioxide allowance trading system could result in savings for electric utility customers while helping to attain a substantial reduction of sulfur dioxide by utilities. It has been estimated that 20 to 40 percent of the costs incurred under the traditional system of regulation will be saved under the allowance system. The range of savings, however, depends upon the freedom granted utilities to buy and sell allowances.

The basic premise of the allowance trading system is that control costs differ markedly between utilities. Some utilities may find it relatively inexpensive to overcontrol and generate excess allowances, with the intent to sell them to utilities which have higher control costs.

Buyers and sellers in the allowance market need to plan over the long term and may require allowance commitments of 15 to 20 years. For firms to make this type of commitment requires a stable market, one that will not change without proper notice, that is, with full and public debate and legislative action. Under the law, firms are assured of their freedom to contract according to mutually agreed-upon terms, terms which are legally enforceable in the courts.

The allowance market is expected to encourage sources to exploit energy efficiency, enhanced emissions control technology, fuel-switching, and least-emissions dispatching in order to maximize emissions reductions. Transfers must become effective as quickly as possible with minimal burden on the parties to the transfer. Since the essential compliance event is matching each unit's actual emissions with the number of allowances it holds, no unit should be legally entitled to avoid its emissions limitation obligations by claiming possession of allowances held, and applied to compliance, by another source. Thus, transfers must be virtually automatic to minimize or eliminate such claims, for, once a transfer is deemed effective, by definition only one unit can claim the transferred allowances. (Clean Air Act Sec. 403(b) at ¶ 2403.)

Allowances as Private Property

Allowances cannot be considered private property as EPA can take allowances away from utilities without paying for them, thus denying compensation to either the utility or its ratepayers. Allowances are, in large part, simply iterations of each unit's permit. Since the permits will be legally binding statements of each unit's emissions limitations obligations, the acid rain provisions make it clear that should Congress otherwise modify the allowances or the underlying regulatory program, the U.S. government will not be obliged to compensate allowance-holders for loss of the allowances or any loss of their value. Allowances are but the means of implementing an emissions limitation program, which can be altered in response to changes in the environment or for other reasons of public policy.

At the same time, the allowance system is designed so that the allowances will be treated in part like economic commodities. Accordingly, allowance holders should expect that allowances will partake of durable economic value and that commercial and other relevant law will apply to allowances and function to protect that value. Only Congress and the President, acting together through legislation, have the authority to limit or to revoke allowances. If allowances could be easily revoked or even altered by EPA, there would be little reason for utilities to undergo the effort and expense of control. (Clean Air Act Sec. 403(f) at ¶ 2403.)

Allowance Tracking System

As compliance with sulfur dioxide requirements will necessitate a comparison of emissions and allowances, EPA will develop automated tracking systems for each. The allowance tracking system will keep records of allowance holdings and will be constantly updated to record the status of allowances traded.

In the allowance tracking system, only the essentials are to be reported, akin to the stock market publications of the terms of a transaction, including price, number of allowances, and duration. This information will facilitate the functioning of the allowance system by allowing firms to assess their opportunities relative to the market and make decisions to buy or sell allowances on that basis.

The National Allowance Database (NADB) will be used for purposes of allocating allowances. (Clean Air Act Sec. 403(d) at ¶ 2403.)

Certification and Recordation

Allowances can be transferred among the owners and operators of affected sources. However, a transfer is not effective until EPA receives and records written certification of the transfer.

This certification and recordation requirement clearly contemplates transfers of allowances between unaffiliated owners and operators of affected sources. On the other hand, transfers of allowances among affected sources under common ownership or control would not have to be recorded with EPA. Moreover, affiliated sources are exempted from the recording requirements and utilities can undertake contractual agreements to aggregate allowances into one allowance pool for common use (see below). Once the allowance pooling agreement is filed with EPA, the

participating utilities are permitted to transfer allowances instantaneously without having to certify the transaction with EPA. (Clean Air Act Sec. 403(b) at ¶ 2403.)

Unused Allowances

Unused allowances can be carried forward into the following year. (Clean Air Act Sec. 403(b) at ¶ 2403.)

Allowance Election Deadline

Utilities that are allowed to make choices as to how their allowances are to be calculated must make such choices by March 31, 1991. If utilities do not make their choices on time, EPA will make the choice for them, based on the agency's determination of which choice would be most advantageous for the utility. (Clean Air Act Sec. 403(a) at ¶ 2403.)

Allowance Pools

While utilities can pool allowances allocated for a group of units for their own dispatching purposes, compliance is strictly based on each unit's annual emissions not exceeding the total number of annual allowances held for the unit.

Using the allowance pool system, owners or operators need only record with EPA that they intend to enter into agreements to buy or sell allowances. Once in place, these voluntary pooling agreements can operate to reduce the number of actual transfers of allowances and, thus, the overall compliance burden. For example, utilities or operating companies can keep and share one set of allowance books to accommodate their emissions allowance requirements. (Clean Air Act Sec. 403(d) at ¶ 2403.)

Competitive Bidding for Power Supply

Nothing in the acid rain provisions can be construed to interfere with or impair programs for competitive bidding for power supply in states where these programs have been established. (Clean Air Act Sec. 403(h) at ¶ 2403.)

Antitrust Laws

The antitrust laws, meaning those laws set forth in Section 1 of the Clayton Act, are applicable to the transfer, use, or sale of allowances. Nothing in the acid rain provisions affects the authority of the Federal Energy Regulatory Commission to curb unfair methods of competition or anticompetitive acts or practices. (Clean Air Act Sec. 403(i) at ¶ 2403.)

Public Utility Holding Companies

Holding company allowance transactions involving associate and unrelated companies are not subject to jurisdiction by the Securities Exchange Commission under the Public Utilities Holding Act of 1935. (Clean Air Act Sec. 403(j) at ¶ 2403.)

¶ 403 Auction and Direct Sale Provisions

For purposes of auctioning off allowances, EPA must tap 2.8 percent of the annual allowances. A portion of the allowances in the reserve are to be put in a direct sale subaccount and sold by EPA in accordance with EPA regulations. The proceeds of allowance sales are to be returned to the

affected units on a *pro rata* basis. Purchasers are required to pay 50% of the total purchase price within six months after the approval of the request to purchase, the remainder due before allowance transfer. Unsold allowances are to be transferred to an auction subaccount (discussed below). The requirement to hold direct sales (discussed below) can be terminated by EPA if less than 20% of the allowances available for sale are sold in any two consecutive years, and any remaining allowances are transferred to the auction subaccount. (Clean Air Act Sec. 416(d) at ¶ 2416.)

Auction System

The auction system is intended to guarantee that a significant volume of allowances is available for interstate and interutility trading starting in 1991. The system will be part of the market, but not the entire market, since it is likely that the majority of allowances will be bought and sold outside of the auction and direct sale systems. While the auction is not the primary market, it will guarantee that a private market gets started.

For purposes of the auction, allowances are to be allocated and sold on the basis of bid price, starting with the highest bid and continuing until all the allowances are sold or all the bidders are accommodated, whichever comes first. For the allowances tapped for auction, sellers cannot set minimum prices; bidders are required to submit bid schedules which specify prices for the quantity of allowances they wish to purchase. Any revenues from the auction are returned *pro rata* to the owners or operators from whom they were tapped. Once all the tapped allowances have been sold, owners or operators wishing to offer additional (*i.e.*, more than the 2.8 percent tap) allowances for sale at any auction can do so. Such allowances can be offered in advance or on a "spot" basis, and at a minimum price, and the revenues from any such sale are returned in full to such owner or operator. For purposes of selling additional allowances, EPA must match the highest bids to the lowest minimum price.

Once the auction has been in place long enough, EPA is given latitude to modify the size of the auction, but not the pricing or up-front payment mechanism. (Clean Air Act Sec. 416(d) at ¶ 2416.)

Direct Sales

The direct sales provisions are applicable to independent power producers that propose to construct new facilities. A reserve has been set up for these producers in the event that they cannot purchase allowances for \$750 per ton; however, it is not expected that many allowances will be needed in the \$1,500/ton direct sale reserve. Independent power producers can apply to EPA to be guaranteed to be first in line to buy these allowances, which total 75,000 (available as spot sales and advance sales in 1993-1999 and 2000 and after). (Clean Air Act Sec. 416(c) at ¶ 2416.)

¶ 404 Monitoring, Reporting, and Recordkeeping

In general, all affected sources will be required to install and operate continuous emissions monitors (or an alternative system which provides information with the same precision, reliability, accessibility, and timeliness) on each affected unit at the source, and to quality assure the data for sulfur dioxide, nitrous oxides, opacity and volumetric flow. Multiple units using a single stack do not require unit-specific CEMS, but do require the

collection of sufficient reliable information to demonstrate compliance for each unit.

The owner or operator of any source subject to the acid rain provisions must install and operate a continuous emissions monitoring system on each affected unit at the source. If two or more units utilize a single smoke stack, a separate system is not required for each of them. Monitoring will be required for sulfur dioxide, nitrous oxides, opacity, and volumetric flow rate.

Phase I units (see ¶ 405) must have CEMS installed no later than November 1994; Phase II units (¶ 406) must have the system no later than January 1, 1995.

If CEMS data or data from an alternative monitoring system approved by EPA is not available, EPA must deem the unit to be operating in an uncontrolled manner. The owner or operator may then become liable for excess emissions fees and offsets (see ¶ 412). (Clean Air Act Sec. 412 at ¶ 2412.)

¶ 405 Phase I Sulfur Dioxide Requirements

Mandatory Emissions Reductions

By January 1, 1995, during the first phase of the program, the 110 largest sulfur-emitting electric utility plants (located in 22 states, but concentrated in the Middle West) must meet stricter standards for annual sulfur emissions. Each unit (roughly 265 units in 110 plants) has an output capacity greater than or equal to 100 megawatts and emits at a rate greater than or equal to 2.5 lbs/mmBTU. These units will receive allowances equal to 2.5 lbs/mmBTU times the unit's "baseline," which is defined as its 1985-1987 fuel consumption—an average of 40 percent reduction at these plants.

Meeting these standards will halve the total sulfur dioxide emissions in the country: when fully implemented, Phase I will result in annual sulfur dioxide emissions reductions of 2.8 to 4.4 million tons by January 1, 1995. (Clean Air Act Sec. 404(a) at ¶ 2404.)

List of Units

The Clean Air Act lists 110 units with mandatory emissions reductions in Phase I, although emissions reductions from other units can be substituted in whole or in part. The listed units represent the units with both the highest sulfur dioxide emissions levels and the greatest opportunities to make cost-effective reductions. (Clean Air Act Sec. 404 at ¶ 2404.)

Units in Certain Clean Systems

Phase I affected units with rates below 1.0 lbs/mmBTU which have decreased their rates by 60% or more since 1980 and are part of a utility system with a weighted average rate for all fossil fuel units of below 1.0 can elect to be allocated allowances using an alternative baseline calculation. (Clean Air Act Sec. 404(h) at ¶ 2404.)

Transfer of Allowances Among and Between Allowance Holders

Units subject to Phase I emissions reductions can achieve compliance through the transfer of allowances between and among allowance holders.

EPA must ensure that the emissions reduction trading that an owner or operator proposes to undertake between and among the owner's or operator's units actually results in total emissions reductions that would have been achieved had the listed unit itself made the reductions. Accordingly, the owner or operator must submit an emissions reduction sharing or unit substitution proposal that demonstrates that the required reductions will be achieved. (Clean Air Act Sec. 404(b) and (c) at ¶ 2404.)

Extensions

A Phase I unit employing a "qualifying Phase I technology" or transferring its Phase I emission reduction requirements to a unit employing such a technology can receive a two-year extension from the January 1, 1995, deadline. A qualifying Phase I technology is defined as a technological system of continuous emissions reduction which achieves a 90 percent reduction of emissions of sulfur dioxide from emissions that would have resulted from the combustion of untreated fuels. Units employing such technologies will also be eligible for additional incentive allowances from a reserve established for that purpose. The reserve will hold allowances equivalent to the number of tons of sulfur dioxide emissions reductions projected for the year 1995, but not to exceed 3.5 million.

The extension must be requested in the application for permit. The unit will be penalized after January 1, 1997, if it continues to emit excess sulfur dioxide by deducting allowances equal to the excess emissions from its annual allowance allocation. (Clean Air Act Secs. 402 (19) and 404(d) at ¶ 2402 and 2404.)

Allowances for Emissions Avoided Through Energy Conservation and Renewable Energy Sources

Utilities can earn allowances through energy conservation measures or through deriving their energy from renewable sources, such as biomass, solar, geothermal, or wind.

- Cogeneration facilities are exempted from requirements if the unit supplies less than one-third of its potential electricity output to a utility power system or it is less than 25 MWe in size.

- Qualifying small power production cogeneration and independent power production facilities, which, as of the date of enactment, had an executed power sales agreement, a letter of intent or regulatory commission order, or had been exempted from the bidding process are exempted. For each ton of sulfur dioxide emissions avoided by the utility by using these types of energy, EPA will allocate a single allowance. However, the allowances that can be given out in this manner total 300,000 and are available on a first-come, first-served basis only from January 1, 1992 through the year 2000. They are derived from a Conservation and Renewable Energy Reserve to be established by EPA. (Clean Air Act Sec. 404(f) and (g) at ¶ 2404.)

Qualifying Technological Systems—Bonus Incentive Program

To remove sulfur dioxide, utilities are free to choose scrubbers, clean coal, coal washing or whatever approach has the lowest cost. However, plants that use certain control technologies to meet their Phase I reduction requirements can either postpone compliance until 1997 or receive early-reduction bonus allowances for reductions they achieve between 1995 and

1997. In addition, Phase I plants that use certain control technologies will also receive two-for-one credit for every ton of reduction they achieve below a 1.2 lbs./mmBTU level during Phase I.

Units able to remove 90 percent of their sulfur dioxide emissions through the use of qualifying technological systems or continuous emissions reduction will, upon approval by EPA, receive allowances from a bonus reserve in sufficient number to permit them to delay compliance with Phase I deadlines until January 1, 1997. In addition, units receiving such allowances can also receive bonus allowances equal in number to the tonnage emissions reductions they achieve below a level equal to 1.20 lbs./mmBTU multiplied by their fuel consumption baselines. The bonus allowances are limited to 3.5 million or to a lesser number equal to the total emissions reductions projected by EPA to be achieved in calendar year 1995 and adjusted in 1996 if actual reductions are fewer than projected. (Clean Air Act Sec. 404(d) at ¶ 2404.)

Midwestern Allowances

Additional allowances are allocated for Phase I units located in Illinois, Indiana, and Ohio. For these areas, excluding three specific units, uncertain emissions of between zero and 200,000 tons have been identified; thus 200,000 allowances are allocated in Phase I and an additional 50,000 in Phase II. (Clean Air Act Sec. 404(a) at ¶ 2404.)

¶ 406 Phase II Sulfur Dioxide Requirements

In the second phase of sulfur dioxide reductions, which begins January 1, 2000, about 2000 utility units with output capacity greater than or equal to 25 megawatts are included in the allowance system. Those with 75 megawatts and with rates greater than or equal to 1.2 lbs./mmBTU will be allocated allowances equal to 1.2 lbs./mmBTU times the units' baseline—roughly a 65% reduction in forecasted emissions at these plants.

By then, utilities and other sources must be emitting no more than 8.9 million tons of sulfur dioxide annually (not counting bonus allowances allocated for the first 10 years of Phase II—see below). If the allocation formulas result in the allocation of more than 8.9 million basic Phase II allowances, EPA must reduce each unit's allocation on a *pro rata* basis, in an aggregate amount equal to the excess allocations that would otherwise be made.

Reductions achieved in calendar year 2000, the first year of Phase II, are banked in a fund of 5.3 million allowances to be redistributed at a rate of 530,000 a year for 10 years. These allowances are to be distributed to coal-fired plants with low capacity factors, to plants under construction, and to plants in states with state-wide average emissions rates below 0.8 lbs./mmBTU, based on each plant's share of electrical generation.

Nationwide, plants that emit sulfur dioxide at a rate below 1.2 lbs./mmBTU will be able to increase their emissions between now and the year 2000 by roughly 20 percent and will then be limited to that level. This requirement is necessary to maintain the nationwide cap on sulfur dioxide emissions. (Clean Air Act Sec. 405(a) at ¶ 2405.)

There are various other emission rate/allowance allocation provisions for several other categories of sources, including:

- Units using primarily lignite coal in 1985-1987 and located in attainment states (see below). (Clean Air Act Sec. 405(b) at ¶ 2405.)
- Coal- or oil-fired units below 75 MWe and above 1.2 lbs./mmBTU. (Clean Air Act Sec. 405(c) at ¶ 2405.)
- Coal-fired units below 1.2 lbs./mmBTU. (Clean Air Act Sec. 405(e) at ¶ 2405.)
- Oil- and gas-fired units equal to or greater than .6 lbs/mmBTU and less than 1.2 lbs/mmBTU. (Clean Air Act Sec. 405(e) at ¶ 2405.)
- Oil and gas-fired units less than .6 lbs/mmBTU. (Clean Air Act Sec. 405(f) at ¶ 2405.)
- Units that commence operation between 1986 and December 31, 1995 (see below). (Clean Air Act Sec. 405(g) at ¶ 2405.)
- Oil- and gas-fired units with fuel consumption of less than 10% oil consumed. (Clean Air Act Sec. 405(h) at ¶ 2405.)

Emissions Limitations

The emissions limitations set forth in Phase II capture virtually every steam-electric utility in the 48 contiguous states and effectuate the 10 million ton reduction in annual sulfur dioxide emissions that is a chief objective of the acid rain provisions. After the year 2000, all new energy facilities must secure sufficient offsets to achieve zero emissions on a net basis.

In the face of projected growth of sulfur dioxide emissions, estimated to be as high as 4.5 million tons over the next 20 years, the Phase II objective would be unattainable unless specific tonnage limitations are imposed on each unit.

During Phase II all utility units emitting sulfur dioxide at rates equal to, or greater than, 1.20 lbs/mmBTU and with nameplate generating capacity equal to, or greater than, 75 megawatts will be required to reduce their emissions to levels no greater than the product of 1.20 lbs/mmBTU multiplied by baseline fuel consumption. (Clean Air Act Sec. 405(b) and (c) at ¶ 2405.)

Unscrubbed Lignite-Fired Power Plants in Attainment States

Lignite coal is low in sulfur, but cannot economically be transported any great distance. Lignite-fired power plants are not owned and operated by utilities that have units subject to first phase sulfur dioxide reductions. These utilities therefore do not have an opportunity within their own systems to overcontrol some units to create enough allowances to continue operations at current levels. By freezing emissions at the current level, the law prevents economic losses in states that are already in attainment. (Clean Air Act Sec. 405(b) at ¶ 2405.)

Utility Plants Under Construction

For units slated to go on line between 1986 and December 31, 1995, Phase II allowances are issued in amounts as designated under the available options. Some will be exempted from the emissions limitation program altogether.

Permanent allowances will be issued starting with the second phase for units listed as eligible units in progress unless the unit exercises other option provisions to receive allowances. The permanent allowances issued for these plants will be treated as are any other allowances, including holding, using, purchasing, trading, pooling, selling, auctioning, transferring, banking, and other uses. These allowances cannot be subject to the reallocation, reduction, or redistribution mechanisms in the law. Units issued allowances cannot exceed that annual sulfur dioxide tonnage emission limitation unless the owner or operator holds for use additional allowances equal to the amount of emissions over the initial allocations. (Clean Air Act Sec. 405(g) at ¶ 2405.)

Phase II Bonus Allocations

In addition to allocation through the above-noted provisions, bonus allowances are allocated for a period of 10 years (2000-2009) to the following categories of sources:

- Units in certain “high-growth” states. (Clean Air Act Sec. 405(i) at ¶ 2405.)

- Municipally owned power plants that generate 40 MWe or less. (Clean Air Act Sec. 405(j) at ¶ 2405.)

- Fifty thousand bonus allowances per year are allocated to plants in 10 Midwestern states that make reductions in Phase I. (Clean Air Act Sec. 405(a)(3) at ¶ 2405.)

- States with emission rates at or below 0.8 lbs/mmBTU (see ¶ 408);

- Units with actual 1985 rates below 2.5 lbs/mmBTU and capacity factors less than 60%. (Clean Air Act Sec. 405(b)(2) at ¶ 2405.)

- Units that converted to coal between 1980 and 1985 and that are located in states with more than 30 million KW installed electrical generating capacity. Plants that have experienced increases in their utilization in the last five years also receive bonus allowances.

The size of the bonus pool—5.3 million allowances—is intended to match the tonnage reduction achieved in calendar year 2000. Thus, calendar year 2000 is treated as a “banking” year. However, by operation of compliance extensions available to units that adopt repowering technologies for purposes of compliance, year 2000 reductions may be fewer than 5.3 million tons. To compensate for this, EPA is required to calculate the number of allowances that will be allocated in the year 2000 to implement the extension (*i.e.*, those required to cover the difference for each unit between 1.2 lbs./mmBTU baseline and uncontrolled levels) and to reduce *pro rata* all units’ basic Phase II bonus allocations for each of the first 10 years in an amount equal to 10 percent of the total repowering extension allowances allocated in the year 2000. (Clean Air Act Sec. 405(a)(2) at ¶ 2405.)

Emissions Cap

Emissions of sulfur dioxide cannot exceed 5.60 tons per year if it appears to EPA that emissions will exceed that level, the agency is empowered to take any appropriate actions to ensure that they do not.

This is to be accomplished by limiting allowances to existing sources and in allowance transactions to even clean sources roughly equivalent to a 20 percent increase above current levels. All new sources are required to buy into the allowance system (*i.e.*, new sources will not be allocated allowances but will have to purchase them starting in Phase II). (Clean Air Act Amendments of 1990 Sec. 406(b) at ¶ 3406.)

List of Allocations

By December 31, 1991, EPA must publish a list of the basic Phase II allowance allocations, the Phase II bonus allowance allocations, and certain extra allowances to be allocated to units in Illinois, Indiana, Ohio, Georgia, Alabama, Missouri, Pennsylvania, West Virginia, Kentucky, or Tennessee. After the public has had an opportunity to comment, the final list will be published by December 31, 1992. (Clean Air Act Sec. 403(a) at ¶ 2403.)

¶ 407 Nitrous Oxides Emission Reduction Program

The Clean Air Act has been designed to achieve a two million ton reduction in nitrous oxides, a significant portion of which will come from utilities regulated under the acid rain provisions. This is to be accomplished by requiring utility boilers to meet tough new emission requirements. Specifically, the legislation sets stringent new nitrous oxide emissions rates for existing tangentially-fired and dry bottom wall-fired utility boilers.

Performance standards under which the 110 utilities that are required to reduce sulfur dioxide emissions in Phase I (see ¶ 405) are also required to control their nitrous oxides emissions must be met by January 1, 1995 for certain boiler types. The emissions standards will be based on low nitrous oxides burner technology. By EPA must set new rates for other utility boiler types by January 1, 1997. These are to be set taking into account available technology, energy impacts and the costs incurred by compliance with nitrous oxides controls.

Remaining affected sources must meet these standards by the Phase II deadline (January 1, 2000). This standard will also be set based on low nitrous oxide burners and will be updated as new technologies are developed.

Oxides of nitrogen will be reduced from coal-fired units in two phases. The first phase begins in 1995 for Phase I dry-bottom, wall-fired and tangential units. The reductions continue beginning January 1, 1997, for other coal-fired units. Cyclone and wet-bottom boilers may be required to reduce nitrous oxide emissions only if the costs of such reductions are as cost effective as reductions from installation of low nitrogen dioxide burners on other types of boilers. EPA must make this decision for existing cyclone and wet-bottom units before January 1, 1997.

These emissions limits must be based on available technology, costs, and energy and environmental impacts for the best system of continuous emissions reduction and must be comparable in cost to the limits set for Phase I units. Cost considerations should be so thorough as to consider total life-of-unit capital and operating costs, including differentials in fuel costs to control NO₂ emissions.

If, after installing and correctly operating appropriate control equipment, a unit demonstrates that it cannot meet the relevant standard, then the permitting authority can set a less stringent standard. Units can also comply by multi-unit emissions averaging if, in a petition to the permitting authority, they demonstrate that the averaged rate is less than or equal to the Btu-weighted rate of each unit in the absence of the proposed averaging.

Provisions permitting emissions averaging and granting extensions to plants that suffer substandard performance from pollution control equipment or that face shortages in the supply of needed technology ensure that the program will be flexible. (Clean Air Act Sec. 407(b), (d), and (e) at ¶ 2407.)

Low-Nitrous Oxides Burner (LNB) Technology

This technology is applicable to wall-fired and tangentially fired steam electric coal-fired utility boilers.

If an owner or operator installs this technology and then cannot meet the emission rate established for a given type of boiler, he has the right to seek and obtain either an alternative emission rate or average emissions between two or more units within their electric system. Installation of LNB technology on all Phase I units by 1995 might be unachievable for some utilities. This, in part, could be due to the projected inability of domestic manufacturers to provide an adequate supply of LNB equipment. A blanket extension of 15 months after the 1995 deadline is therefore available if the owner or operator of any unit is unable to install, test, or operate low-nitrous oxide burners on a unit, taking into account system reliability. The extension recognizes that major outages must be scheduled in order to install the new equipment and that the equipment may be unavailable at the time the unit would need to be scheduled for its outage. It also takes into account the time necessary to install and test that equipment. (Clean Air Act Sec. 407(b) at ¶ 2407.)

New Source Performance Standard

To ensure that nitrous oxide emissions are kept in check, EPA is required to promulgate a New Source Performance Standard for nitrous oxide emissions from new fossil fuel-fired steam generating units. (Clean Air Act Sec. 407(c) at ¶ 2407.)

¶ 408 Allowances Allocated to Clean States

Plants in states whose average utility emissions rate of sulfur dioxide is at or below 0.8 lbs/mmBTU can, at the election of the governor, receive allowances under a set of noncapacity-factor-based 120 percent formulas plus allowances from a 125,000-allowance bonus pool based on their share of electrical generation.

Authorized states that desire to use this alternative allowance system must inform EPA of that decision by June 30, 1991. If the governors do not make their elections in a timely fashion, EPA will make the decision for them. (Clean Air Act Secs. 403(a)(1) and 406 at ¶ 2403 and 2406.)

¶ 409 Permits and Compliance Plans

As with other Clean Air Act requirements, the basic implementing vehicle for the acid rain program will be operating permits and compliance plans. All affected sources must prepare and submit permits applications and compliance plans.

Phase I permit applications and compliance plans (see below) are due in February of 1994. EPA must act on permit applications within six months of receipt. The applications must specify methods and schedules of compliance and whether the owner or operator intends to use alternative methods of compliance. Compliance plans will bind units to complying with emissions limitation requirements even in cases where alternative compliance strategies fail.

To meet compliance planning requirements, the owner or operator of the affected unit need only submit a statement to EPA indicating that the unit will meet the applicable emission requirements in a timely manner. The permit should only restate the statutory emission requirements applicable to the unit and require the owner or operator to hold the necessary allowances for the unit. The compliance plan, which is submitted with the permit application, should outline in general terms how the owner or operator intends to comply with the new requirements, giving him the freedom to respond to changes in electricity demand and to reallocate his allowances accordingly. (Clean Air Act Sec. 408 at ¶ 2408.)

Permits

Permits issued to implement the acid rain provisions will be in effect for five years. All acid rain requirements are activated with the issuance of the permit. No permit can be issued that does not include the applicable legal provisions. Thus, a permit or compliance plan cannot alter the legal requirements that are essential to achieving the emissions limitation requirements imposed on each unit. The emissions limitations and the allowances allocation formulas and other requirements necessary for making the system accountable and functional must supersede any permit provisions that are contradictory or inconsistent.

In the case of nitrous oxides, permits must state that a source cannot emit in excess of the applicable emissions limitation. Concerning sulfur dioxides, the permits state that a source cannot emit in excess of the allowances it holds.

The acid rain requirements supersede any permit to the extent that the permit does not itself incorporate the provisions and requirements of the acid rain law. (Clean Air Act Sec. 408(a) at ¶ 2408.)

Fees

No fees for permits will be required between 1995 through 1999. (Clean Air Act Sec. 408(c)(4) at ¶ 2408.)

Compliance Plans

Each permit must be accompanied by a compliance plan. Compliance plans specify which of the alternative methods of compliance the source has chosen as a compliance strategy. If more than one unit is involved, the plan must cover all the units. The plan describes, in a

comprehensive manner, the schedule and means by which the unit will achieve compliance with emissions limitations. The plan can include, at the option of EPA, the demonstration of attainment of national ambient air quality standards. (Clean Air Act Sec. 408(b) at ¶ 2408.)

Phase I Permits and Compliance Plans

Phase I compliance plans are binding until permits are issued. Phase I permits are issued by EPA. If a utility plans to meet Phase I reduction requirements by shifting electrical generation load from a Phase I unit to a non-Phase I unit, it must identify those units, which would, in turn, be required to limit their emissions to 1985 levels. Owners or operators must pay an excess emission penalty of \$2,000 per ton for any annual emissions in excess of annual allowances, and these excess emissions must be offset in the following year (see ¶ 412). (Clean Air Act Sec. 408(c) at ¶ 2408.)

Phase II Permits and Compliance Plans

Phase II permits are to be issued by state permitting authorities in states with approved permit programs. Phase II sources must submit permit applications by January 1, 1996, and states with approved permit programs must issue the permits by December 31, 1996. In states without approved permitting programs, sources must submit applications to EPA by July 1, 1996, and EPA must issue them by January 1, 1998. No permit can be issued until the designated representative of the owners files a certification concerning the holding and distribution of allowances. (Clean Air Act Sec. 408(d) at ¶ 2408.)

New Unit Permits

Sources with new units must submit permit applications two years before the latter of January 1, 2000 or the date on which the unit commences operation. (Clean Air Act Sec. 408(e) at ¶ 2408.)

Exceptions

In the following circumstances, compliance plans serve a necessary function to ensure that utilities actually follow through on utilizing these specific strategies:

- For purposes of receiving two-year extensions and bonus allowances during Phase I if they employ efficient pollution control equipment, either for a single unit or for a bubble with two or more units.

- For purposes of receiving four-year extensions of the Phase II deadline for repowering with a clean coal technology. Utilities receive bonus allowances for early energy conservation and renewable energy technology.

- For purposes of emission averaging or alternative emission rates under certain circumstances, in lieu of complying with the basic unit-by-unit basic nitrous oxides control program.

- For purposes, during Phase I (1995-1999), of substituting unaffected units for affected units.

In all other cases, a simple statement that the utility's allowances will match its emissions by the applicable deadline is all that is required. (Clean Air Act Sec. 408 at ¶ 2408.)

Multiple Owners

The provision in the law addressing multiple owners buttresses the interests of minority-share owners. Minority-share owners are protected because EPA cannot act with respect to the allocation of allowances in the absence of a certified designated representative of the owners. The agreement that the owners will have to reach in designating a representative will give the minority-share owners powerful leverage in ensuring that they are equitably treated by their commercial partners. (Clean Air Act Sec. 408(i) at ¶ 2408.)

¶ 410 Repowered Sources

A four-year delay in compliance requirements is available for units using clean coal technologies that are specifically designed for, and applied to, boiler replacement or “repowering.” The extension is available from January 1, 2000 until December 31, 2003.

Repowering is any technology capable of controlling multiple combustion emissions simultaneously, so long as increased boiler efficiency and significantly greater waste reduction are achieved. Technologies include atmospheric or pressurized fluidized bed combustion, integrated gasification combined cycle, magneto hydrodynamics, direct and indirect coal-fired turbines, integrated gasification fuel cells or a derivative of one of these techniques as determined by the EPA in consultation with DOE.

The extension is provided only for repowering technologies because they require substantial modification or replacement of the boiler and other essential components. In order to utilize these technologies, the unit must be largely rebuilt. In contrast, other clean coal technologies involve retrofits of existing units without such substantial modifications. No extension, with a commensurate temporary loss of emissions reductions, is warranted for these technologies.

Allowances, which will be allocated to coincide with the extension, cannot be transferred or used by any other source to meet emissions limitations. (Clean Air Act Secs. 402(12) and 409 at ¶ 2402 and 2409.)

New Source Performance Standards

Repowered sources are exempt from the New Source Performance Standards and new source review requirements if projected emissions do not increase over past actual emissions. (Clean Air Act Sec. 409(d) at ¶ 2409.)

Clean Coal Technologies

Clean coal technologies (see, further, ¶ 413) that employ repowering are exempt from new source review if actual emissions for any criteria pollutant do not increase over previous emissions. States are encouraged to give such projects expedited review. (Clean Air Act Sec. 409 at ¶ 2409.)

¶ 411 Voluntary Sources

Sources not otherwise subject to the acid rain requirements can voluntarily become part of the acid deposition control program and obtain allowances to trade within the program. Utilities and industrial sources can contract for allowances and pollution control costs in order to assure

¶ 410

themselves future sources of allowances for growth. (Clean Air Act Sec. 410 at ¶ 2410.)

Reduced Utilization or Shutdown

Allowances issued under this program cannot be transferred or banked if the unit in question slows down or shuts down, unless the unit is replaced. (Clean Air Act Sec. 410(f) at ¶ 2410.)

Emissions Limitations

Annual emissions limitations for sulfur dioxide will be equal to the product of the baseline (see below) multiplied by the unit's 1985 actual or allowable emission rate in lbs/mmBTU. If the unit was not yet in operation in 1985, the limitation will be the lesser of the unit's actual or allowable emission rate for a calendar year after 1985 divided by 2,000. (Clean Air Act Sec. 410(c) at ¶ 2410.)

Establishment of a Baseline

The baseline for calculating allowances for this group of sources will be based on fuel consumption and operating data for the unit for calendar years 1985, 1986, and 1987. (Clean Air Act Sec. 410(b) at ¶ 2410.)

Small Diesel Refineries

Small diesel fuel refiners can earn sulfur dioxide allowances for manufacturing low-sulfur diesel fuel for both on- and off-highway use. This provision is intended to ensure that not only will emissions of sulfur dioxide be reduced but that refining capacity in the United States is maintained. Small refiners must meet an interim content level for sulfur dioxide in 1993.

As with the market-based incentives on which the acid rain trading program is based, small refiners can sell allowances they earn and use the proceeds to help offset compliance costs. A refinery will earn one allowance for each ton of sulfur dioxide removed through the desulfurization process.

Small refiner eligibility is specifically and solely based on *bona fide* crude oil throughput. The provision enables a refinery to earn a maximum of 1,500 allowances per year from October 1, 1993 through December 31, 1999. By this date, it is believed the allowance program would have sufficiently assisted refiners complying with the low sulfur diesel requirements. Also, small refiners as a class are limited to a total of 35,000 allowances per year. (Clean Air Act Sec. 410(h) at ¶ 2410.)

¶ 412 Excess Emissions Penalty

Sources that emit sulfur or nitrous dioxides in excess of the allowances that they possess for any calendar year must pay an excess emissions penalty of \$2,000 per ton. This provision eliminates any financial benefit such owners or operators might have received from noncompliance—in the case of sulfur dioxide, the fact that this certain sanction substantially exceeds the expected cost of compliance through the purchase of allowances is expected to prove a strong incentive that will help to assure voluntary compliance. The fee will be recalculated annually to keep pace with inflation. It will be high enough so that most pollution control

options will be cheaper than continuing to unlawfully emit the pollution. (Clean Air Act Sec. 411(a) at ¶ 2411.)

Excess Emissions Offset

Excess emissions must be offset by an equal tonnage in the following calendar year, although a longer time frame for offsets may be prescribed by EPA. Allowances will be deducted equal to the excess tonnage from those allocated to the source for the calendar year or succeeding years during which offsets are required. (Clean Air Act Sec. 411(b) at ¶ 2411.)

Emissions Reduction Plan

Once a source has been determined to be subject to the excess emissions fee, it has 60 days to submit a plan demonstrating how it will reduce its emissions to achieve the provisions of the law, including a plan to achieve required offsets. The plan, once approved by EPA, is deemed a condition of the unit's operating permit. (Clean Air Act Sec. 411(b) at ¶ 2411.)

Enforcement

Any unit emitting sulfur dioxide in excess of the allowances held for the unit is considered a violator, with each ton in excess of allowances constituting a separate violation. (Clean Air Act Sec. 414 at ¶ 2414.)

¶ 413 Clean Coal Technologies

A clean coal technology is one that uses coal at the precombustion, combustion, or postcombustion stage to achieve significant reductions in emissions of sulfur dioxide or nitrous oxides. The technology, which could occur in the generation of electricity, process steam, or industrial production, has to be one that is not in widespread use as of November 1990. Sources which use clean coal technologies or participate in certain clean coal technology demonstration projects are exempt from the New Source Performance Standards and new source review requirements if projected emissions do not increase over past actual emissions. (Clean Air Act Sec. 415 at ¶ 2415.)

Temporary v. Permanent Projects

Temporary clean coal technology demonstration projects (those operating for five years or less) are exempt from the ambient air quality standards in the Clean Air Act. Permanent demonstration projects that are retrofits are presumed not to be major modifications. Permanent demonstration projects that employ repowering are exempt from standards of performance for the transportation system or from review and permitting requirements if their potential emissions for any criteria pollutant do not exceed pre-project potential emission levels. (Clean Air Act Sec. 415(b) at ¶ 2415.)

Clean Coal Technology Demonstrations

A temporary or permanent clean coal technology demonstration project uses funds appropriated by the Department of Energy—up to a total of \$2,500,000,000—for commercial demonstrations of clean coal technology. Similar projects are funded by EPA. The federal contribution for a qualifying project must be at least 20 percent of the total cost of the project.

A specific clean coal project involves the design, construction, and testing of a cyclone boiler. The boiler, which must be completed by January 1, 1995, will serve as a model for sulfur dioxide and nitrous oxide reduction technology at a source that must meet the acid rain standards. EPA will fund at least 50 percent of the cost. The chosen source must be among the top 10 emitters of sulfur dioxide and nitrous oxides in the country; must consist of three or more units, two of which are cyclone boiler units; and must have no existing scrubbers. (Clean Air Act Amendments of 1990 Sec. 413 at ¶ 3413.)

Exemption for Reactivation of Very Clean Units

Coal-fired units which were shut down for the last two years but which have been modified, and which then are reactivated, are not subject to the ambient air quality standards in the Clean Air Act if the unit meets certain requirements, among them a removal efficiency for sulfur dioxide of no less than 85 percent and for particulates of no less than 98 percent. (Clean Air Act Sec. 415(c) at ¶ 2415.)

Clean Coal Technologies Export Programs

A report that identifies, inventories, and analyzes clean coal technologies export programs must be presented to Congress by November 1991. The study must address the effectiveness of interagency coordination and determine the feasibility of establishing an interagency commission for the purpose of promoting the export and use of clean coal technologies. The agencies involved include the Departments of State and Commerce, the Export-Import Bank, and the Overseas Private Investment Corporation. (Clean Air Act Amendments of 1990 Sec. 409 at ¶ 3409.)

¶ 414 Hydroelectric Power

Trades

Utilities signing contracts to trade hydroelectric energy for electric energy are required to use their allowances to satisfy their obligations under the contract. (Clean Air Act Amendments of 1990 Sec. 402(a) at ¶ 3402.)

Federal Power Marketing Administrations

A federal power marketing administration is not subject to the acid rain provisions with respect to the electric energy generated by hydroelectric facilities and marketed by the power marketing administration. However, anyone who sells or provides electric energy to these administrations is subject to the law. (Clean Air Act Amendments of 1990 Sec. 402(b) at ¶ 3402.)

¶ 415 Studies, Lists, and Reports

Acid Deposition Standards

A report on the effectiveness of the acid rain program must be presented to Congress no later than November 1994. Two congressional committees, the Committee on Environment and Public Works in the Senate and the Committee on Energy and Commerce in the House must receive copies of the report, which must identify the terrain in the U.S. and Canada that is principally affected by acid rain. Whether more or less

stringent standards are required is the principal focus of this report, which must compare the U.S. program with the programs of other countries. (Clean Air Act Amendments of 1990 Sec. 404 at ¶ 3404.)

National Acid Lakes Registry

A National Acid Lakes Registry will be devised that will list all the lakes that are known to be acidified due to acid rain. This list must be published by November 1991. Lakes must be added to the list as they become acidic or as data become available. Likewise, lakes that have ceased to be acidic will be deleted from the registry. (Clean Air Act Amendments of 1990 Sec. 405 at ¶ 3405.)

Consequences of Trading Sulfur Dioxide Allowances for Nitrous Oxide Allowances

EPA must perform a study and report to Congress by January 1, 1994, on the economic and environmental consequences of trading sulfur dioxide allowances for nitrogen dioxide allowances. The study is expected to show that there is no harm from such trades and that encouraging reductions in nitrous oxide emissions from facilities could be beneficial. (Clean Air Act Sec. 403(c) at ¶ 2403 and Clean Air Act Amendments of 1990 Sec. 406 at ¶ 3406.)

Monitoring the Acid Rain Program in Canada

Reports on reductions in emission levels of sulfur dioxide and nitrous oxides in Canada in its acid deposition control program must be prepared by EPA and submitted to Congress on January 1 of 1994, 1999, and 2005. The reports must also cover the methods used by each province to make these reductions, the costs involved, and how making and maintaining the reductions affected employment. Beginning on January 1, 1999, the reports must also assess how each province is complying with its stated emissions cap. (Clean Air Act Amendments of 1990 Sec. 408 at ¶ 3408.)

Acid Deposition Research by the U.S. Fish and Wildlife Service

The U.S. Fish and Wildlife Service of the Department of the Interior will perform research related to acid deposition and the monitoring of high altitude mountain lakes in the Wind River Reservation in Wyoming. The project is to be jointly conducted by the Management Assistance Office of the U.S. Fish and Wildlife Service located in Lander, Wyoming and the University of Wyoming. (Clean Air Act Amendments of 1990 Sec. 410 at ¶ 3410.)

Study of Buffering and Neutralizing Agents

The U.S. Fish and Wildlife Service, in conjunction with the University of Wyoming, will study the effectiveness of various buffering and neutralizing agents used to restore lakes and streams damaged by acid deposition. (Clean Air Act Amendments of 1990 Sec. 411 at ¶ 3411.)

Permits

¶ 500

¶ 501 Introduction

Unless so lax that they are preempted by the Environmental Protection Agency, states are expected to administer (while collecting the appropriate fees) the permit program required by the rewritten Clean Air Act. This will entail handling permit applications for the construction or modification of facilities that will contribute to the deterioration of the atmosphere and subsequent monitoring and enforcement of the permit restrictions. The permit program is predicated on the principle that the primary responsibility for the day-to-day operation of the federal emissions reduction statute will rest squarely with state and local air pollution control agencies. EPA, for its part, is expected to provide local administrators with guidance and oversight but not to unduly interfere with the states' implementation of the permit program. In no case may "major sources" of pollution be exempted from the requirements of the program, but an allowance can be made for a lesser source if the program requirements would be "impracticable, infeasible, or unnecessarily burdensome."

Federal guidelines for state air pollution permits are expected to be published in about a year, and states—when writing their implementing regulations—must adopt rules at least as stringent as are contained in the EPA outline. Once the ground rules are established, permits may be issued, but the law gives EPA specific authority to veto the issuance of any particular permit that would violate the underlying statute. In addition, neighboring states with air quality that may be affected by a permit approval must be notified of the permit application and given an opportunity to object to any provisions that the abutting state considers objectionable. (Clean Air Act Secs. 502 and 505 at ¶ 2502 and 2505.)

¶ 502 Required Permit Program

States have until November 15, 1993, to develop and submit for EPA approval a permit program blueprint, which must be either approved or rejected within one year of submission. In the event that a state fails to propose an approvable plan within the applicable time frame, federal highway funds may be withheld and, if that fails, EPA is authorized to override local law and impose its own permit program on any nonattainment area within the nonperforming state. States may, nevertheless, avoid these sanctions if EPA grants interim approval of a working draft plan which, while not in a form that would meet the federal standards, has the potential to qualify for approval when completed. Interim approvals are to be for a maximum duration of two years, and EPA is expected to insure that no temporary stays of sanctions are granted on an interim basis to inadvertently condone a delaying tactic.

Once states have a permit program that has been approved on paper, they are expected to follow the terms and conditions, including a schedule for reducing pollution, laid out in the blueprint. Failure to do so, in terms of either administration or enforcement, could again trigger the imposition of federal sanctions to the extent that such failure relates to an air

pollutant in a designated nonattainment area. Progress reports must be filed with EPA every six months and certification that a state is dutifully following the plan must be filed annually. (Clean Air Act Secs. 502 and 503 at ¶ 2502 and 2503.)

¶ 503 Application Deadlines

Entities requiring permits for construction or modification of a potential source of pollution must submit the appropriate application within one year of the time that they become subject to the permitting requirements. Local authorities have a maximum of 18 months to either approve or deny an application once it has been filed. Anticipating that a barrage of applications will be filed at the outset of the program, the legislators added a phase-in clause which provides—for the total number of applications filed during the first year that permits are required—that at least one-third must be processed during each of the next three years. (Clean Air Act Sec. 503 at ¶ 2503.)

¶ 504 Judicial Review

Suits involving permits or permitting procedures, including a failure by a local authority to meet the statutory approval/denial deadlines, must generally be filed in state courts. In the event that the Environmental Protection Agency is the permitting authority, jurisdiction lies with the federal courts. Taken in concert with the administrative deadlines, these provisions are designed to benefit everyone concerned with the permitting process. Companies that want to get on with their business in conformity with an operating permit will be able to seek court assistance in the event that their applications languish in a large backlog at the local pollution control office. At the same time, persons concerned that delays would allow increases in pollution while action on an application is delayed will be able to petition the courts to compel prompt action on an application. (Clean Air Act Sec. 502 at ¶ 2502.)

¶ 505 Permit Revisions

Permits for major sources of pollution with a term of three years or more may be revised prior to the expiration of the permit term to incorporate applicable changes in the regulations adopted after the issuance of the permit. Such changes must be made within 18 months of the final date of the regulatory amendment. The revision provision was adopted to ensure that the permit requirements are consistent with their legal basis, but not so much so that the permits have to be continuously revised to track every new EPA requirement or regulation.

Formal revision proceedings are not required for relatively minor permit changes that will not result in increases in the rate of emissions or the total amount of emissions, but the entity holding the permit must provide at least seven days' advance notice of the proposed changes to EPA and the local permitting authority. (Clean Air Act Sec. 502 at ¶ 2502.)

¶ 503

¶ 506 Permit “Shields”

Compliance with the terms and conditions—including clauses that render specific pollution rules inapplicable to the licensee—of a valid permit will “shield” permittees from actions that might otherwise arise under the Clean Air Act. So as not to allow a permitting agency to tuck away in a file drawer—away from the public eye—a determination that a source will be shielded from some of the rules, all exemptions must be made in an open fashion and be subject to public review and comment procedures. (Clean Air Act Sec. 504 at ¶ 2504.)

¶ 507 Fees

Fees must be collected under the permit program by state, local, or interstate entities to cover the direct and indirect costs of processing applications and monitoring compliance with the regulations. The minimum fee is to be at least \$25 per ton for each regulated pollutant (except carbon monoxide, and unless it can be demonstrated that program costs will be covered at a lesser cost). States are not, however, required to count emissions of any particular pollutant from one source in excess of 4,000 tons per year, which implies a discretionary cap of \$100,000 annually on single source emissions. If a state program does not meet EPA standards, the agency may preempt the state and collect the appropriate fees. Owners of facilities that fail to pay fees assessed by the agency must pay a penalty equal to 50% of the fee, plus interest. (Clean Air Act Sec. 502 at ¶ 2502.)

¶ 508 Penalties

Permitting authorities are empowered to impose penalties for permit violations in a maximum amount of not less than \$10,000 per day for each violation. House-Senate conferees noted that the “less” should more appropriately have read “more” in the law because the authority is not required to impose a \$10,000 fine for each violation. (Clean Air Act Sec. 502 at ¶ 2502.)

¶ 509 Small Businesses

Although small businesses will be subject to permit deadlines, states will be given a degree of flexibility in administering the program as it applies to other than large firms. Waivers of some of the more onerous rules may be available for small businesses, and states are expected to provide these entities with technical and environmental compliance assistance. (Clean Air Act Sec. 507 at ¶ 2507.)

Enforcement

¶ 600

¶ 601 Introduction

EPA is authorized to initiate a range of enforcement actions for a number of violations of the Clean Air Act, including emergency orders (see ¶ 607), urban smog (see ¶ 100, *et seq.*), vehicle emissions (see ¶ 200, *et seq.*), toxic pollution (see ¶ 300, *et seq.*), acid rain (see ¶ 400 *et seq.*), permits (see ¶ 500 *et seq.*), and stratospheric ozone protection (see ¶ 701).

EPA can take the following actions against persons found in violation of these provisions:

- Issue administrative penalty orders;
- Issue administrative compliance orders;
- Bring civil actions; and
- Seek to initiate criminal proceedings. (Clean Air Act Sec. 113 at ¶ 2113.)

State Implementation Plans and Permit Violations

EPA has enforcement authority over violations of state implementation plans and permits, including the authority to bring civil actions for injunctive relief and penalties, as well as authority to issue administrative penalty orders in response to violations. These authorities can be used by EPA when states fail to enforce their implementation plans or permit requirements.

The 30-day notice of violation for state implementation plan enforcement has been modified, so that the notification requirement remains, but with no requirement that the violation last for more than one day. A source is liable for penalties for all violations of a state implementation plan, including violations that pre-date the notice of violation. (Clean Air Act Sec. 113(a) and (b) at ¶ 2113.)

¶ 602 Administrative Orders and Field Citations

Providing EPA with the option of imposing penalties administratively—without the need to go to court—allows the agency to tailor the punishment to fit the crime. (Clean Air Act Sec. 113 at ¶ 2113.)

Administrative Orders

EPA is authorized to issue administrative orders lasting up to one year, but administrative orders will not take effect until the recipient has the opportunity to confer with EPA concerning the alleged violation. No administrative order can prevent EPA or the state from assessing penalties nor can it affect the enforcement authority of the federal government. Preenforcement review of administrative compliance orders is barred. (Clean Air Act Sec. 113(a)(4) at ¶ 2113.)

Administrative Assessment of Civil Penalties

EPA has new authorities to issue administrative penalty orders up to \$200,000 or even more (see below). Administrative penalty assessments and final orders are enforceable by suit brought by the Attorney General in the appropriate U.S. district court. Judicial review of the validity, amount, and appropriateness of such assessments or orders is expressly precluded.

EPA can issue administrative orders assessing civil penalties for violations of state implementation plans of Title I (smog), II (motor vehicles), III (toxic pollution), IV (acid rain), V (permits), or VI (stratospheric ozone protection) of the Act; or whenever any person attempts to construct, modify, or operate a major stationary source in an area that is not in compliance with the new source provisions of the Act (see ¶ 609).

The penalties can amount to as much as \$25,000 per day of violation, but the total for such penalties is limited to \$200,000 in any particular case unless the EPA Administrator and the Attorney General jointly determine that a total penalty amount greater than \$200,000, or a period of violation longer than one year, is appropriate. The person who is assessed the penalty has the opportunity for an administrative hearing "on the record" before the penalty is assessed. (Clean Air Act Sec. 113(c) and (d) at ¶ 2113.)

Administrative Enforcement Subpoenas

Sources must certify their compliance, and EPA now has broadened authority to issue administrative subpoenas for compliance data. The scope of EPA's power to employ administrative subpoenas is further expanded by authorizing the use of such subpoenas in connection with entry, investigations, compliance inspections, monitoring, reporting requirements, administrative enforcement proceedings, and other actions under several enumerated sections of the Act. (Clean Air Act Sec. 307(a) at ¶ 2307.)

Field Citations

A field citation program will be initiated by EPA to deal with minor violations of the Act. Field citations are capped at no more than \$5,000 per day of violation, with a maximum penalty of \$25,000 over a six-month period. Payment of a field citation penalty is not a defense to further enforcement or penalty liability if the violation continues. (Clean Air Act Sec. 113(d)(3) at ¶ 2113.)

¶ 603 Civil Judicial Enforcement

EPA can initiate civil actions for past as well as ongoing violations. Fines can range up to \$25,000 per day. Violations can be of the requirements and prohibitions contained in the state implementation plans and permits as well as the requirements of Title I (smog), Title II (motor vehicles), Title III (toxic pollution), Title IV (acid rain), Title V (permits), or Title VI (stratospheric ozone protection), as well as Sec. 303 (emergency orders).

Civil actions can also be brought whenever an owner or operator is attempting to construct or modify a major stationary source in violation of

new source requirements (see ¶ 609). EPA has the authority to halt the construction or modification of new sources that are violating new source review requirements. (Clean Air Act Sec. 113(b) at ¶ 2113.)

Judicial Review Pending Reconsideration of Regulation

The filing of a petition for reconsideration of any EPA action that is a final rule or action will not postpone the effectiveness of the rule or action or postpone the time for judicial review. Except with respect to judicial review of administrative penalty assessments and orders, there is no opportunity for preenforcement review. (Clean Air Act Sec. 307(d) at ¶ 2307.)

Judicial Review of Penalty Assessment

Review in an appropriate U.S. district court is permitted for administrative penalties imposed by issuance of a penalty order or field citation (see ¶ 602). All review must be sought within 30 days after the penalty order or citation assessment becomes final. Judicial review of penalty orders and field citations will be review of evidence “in the record” (not *de novo*). No other judicial review of penalty orders or field citations is allowed. (Clean Air Act Sec. 307(d)(4) at ¶ 2307.)

Penalty Assessment Criteria

There are several criteria the courts must employ when determining the amount of penalties to assess in federal enforcement actions and in citizen suits (see ¶ 608). The factors include, in particular, the economic benefit gained as a result of the violation. Violators should not be able to obtain an economic benefit *vis-a-vis* their competitors as a result of their noncompliance with environmental laws. The determination of economic benefit or other factors will not require an elaborate or burdensome evidentiary showing. Reasonable approximations of economic benefit will suffice. Other objective factors customarily taken into account in assessing penalties, such as the history of violations, good faith efforts to comply, and economic impact on the violator, may also be taken into account in arriving at an appropriate penalty.

A penalty can be assessed for each day of violation. In determining the number of days for which a penalty can be assessed, where the government has notified the source of the violation and makes a *prima facie* showing that the violation is likely to have continued, a rebuttable presumption arises that the days of violation are continuous until the violator establishes that continuous compliance has been achieved. The violator has the burden of proving by a preponderance of the evidence any intervening days of compliance. (Clean Air Act Sec. 113(e) at ¶ 2113.)

¶ 604 Criminal Penalties

Anyone who knowingly violates requirements or prohibitions in the law can be subject to criminal fines and penalties. Among the violations that penalties can be levied for are:

● The knowing release into the atmosphere hazardous air pollutants or substances listed under Sec. 112 of the Act (¶ 2112) or 42 U.S.C. 11002(a)(2) and who knows at the time that he thereby places another in imminent danger of death or serious bodily harm. This violation is

classified as a felony; for any organization, a maximum fine of \$1,000,000 for each violation is authorized.

- The knowing failure to pay any fee owed the United States under Title I (smog), II (motor vehicles), IV (acid rain), or V (permits). This violation remains a misdemeanor, punishable by a fine and/or five years imprisonment;

- The negligent or knowing release into the air of any hazardous pollutant that exceeds a standard or limitation under the Act and endangers others. This is a misdemeanor punishable by a fine and/or one year imprisonment;

- The knowing violation of permits as well as state implementation plans as well as the enumerated titles under the Act;

- The knowing filing of false statements and other similar recordkeeping, monitoring, and reporting violations, including the omission of material information. These provisions are not meant to penalize inadvertent errors. For criminal sanctions to apply, a source owner or operator must be on notice of the recordkeeping, monitoring, and reporting requirements in question.

- The knowing failure to install required monitoring devices.

Consistent with other recent environmental statutes, certain criminal violations of the Clean Air Act are upgraded from misdemeanors to felonies. By cross-referencing the Clean Air Act enforcement provisions to 18 U.S.C., the maximum fine is increased to \$250,000 for individuals and \$500,000 for organizations, and the maximum period of imprisonment is 15 years. (Clean Air Act Sec. 113(c) at ¶ 2113.)

Defense Against Prosecution

The government's ability to prove and adequately punish ongoing and recurring violations has been strengthened. Under these changes, the burden of proof is on the defendant for the purpose of determining penalty liability once the government shows that a violation has occurred. Once a violation has been proven, any credible evidence is admissible to show that the violation continued.

The law provides that, except in the case of knowing and willful violations, persons carrying out their normal activities will not be subject to the criminal provisions regarding recordkeeping, monitoring, and reporting. Also, except in the case of knowing and willful violations, persons carrying out their normal activities who are acting under orders from their employer cannot be subject to the criminal provisions relating to endangerment and certain other violations of the Act. Furthermore, except in the case of knowing and willful violations, the term "operator" does not include persons responsible for the operation of equipment unless they are senior management or a corporate officer.

The purpose behind these provisions is to eliminate the special treatment afforded nonmanagement employees in cases of knowing and willful violations. A person who knows that he is being ordered to commit an act that violates the law cannot avoid criminal liability for this act by hiding behind such orders. This "knowing and willful" standard does not require proof by the government that the defendant knew he was violating the

Clean Air Act *per se*. It is sufficient for the government to prove that the defendant knew he was committing an unlawful act.

Once the government has satisfied its burden to prove a “knowing” violation in the traditional sense, the burden will shift to the person seeking to claim the defense and the defendant must prove that he was acting under his employer’s orders or carrying out normal activities. Only after a defendant has satisfied that burden will the government be required to prove that the defendant’s actions were “willful.” If the defense is successfully asserted and the government successfully overcomes it with a showing of a “willful” violation, criminal penalties must be applied. A plant manager or environmental compliance manager who has been granted broad decisionmaking authority by the owner of the facility will not be considered to be acting “under” orders. (Clean Air Act Sec. 113(h) at ¶ 2113.)

Contractor Listings

The scope of EPA’s ability to prevent the award of federal contracts to persons convicted of criminal violations of the Act has been expanded by allowing the agency to extend this prohibition to other facilities owned or operated by the convicted person. EPA is not specifically allowed to use contractors for inspection purposes. (Clean Air Act Sec. 306 at ¶ 2306.)

Awards

EPA is authorized to pay an award, up to \$10,000, to any person who furnishes assistance which leads to a criminal conviction or a civil penalty under Titles III (toxic pollution), IV (acid rain), V (permits), and VI (stratospheric ozone protection) of the Act. Not eligible for any award is any officer or employee of the U.S. or any state or local government who supplies information in the performance of an official duty. (Clean Air Act Sec. 113(f) at ¶ 2113.)

¶ 605 Public Participation in Settlements

In proposed settlement agreements that arise in cases that are other than federal enforcement actions, cases involving noncompliance penalties, or cases involving Title II (motor vehicles), EPA must provide 30 days’ notice in the *Federal Register* and an opportunity for nonparties to comment before a consent order or settlement becomes final or is filed with a court. However, this provision does not include consent orders or judgments subject to Department of Justice policy on public participation. EPA is authorized to withhold consent to such settlements based upon these comments. (Clean Air Act Sec. 113(g) at ¶ 2113.)

¶ 606 Compliance Certification

EPA will require such reports, monitoring, and certifications as it deems necessary for purposes of compliance with the Clean Air Act. With respect to major stationary sources, these prerequisites include requirements for enhanced monitoring and for the submission of certification on the status of compliance. Also, EPA’s authority to require enhanced monitoring and compliance certifications is expanded to include any person who manufactures emission control equipment or process equipment, and who the Administrator believes may have information necessary to

enforce the Act. (Clean Air Act Secs. 114(a) and 307(b)(1) at ¶ 2114 and 2307.)

¶ 607 Emergency Orders

The duration and scope of emergency orders are expanded. EPA can issue the administrative orders necessary to protect public health, welfare, or the environment if the filing of a civil action will not assure such protection. These orders last 60 days unless extended by the filing of an action in court.

Although EPA need not determine whether state or local authorities have acted to abate the emergency prior to filing suit, it must consult with these parties to confirm the accuracy of the information on which the action proposed to be taken is based. Also eliminated is the \$5000 fine to be imposed by the court for each day the violation continues.

Because emergency orders are now enforceable under the federal enforcement sections of the law at Sec. 113, violating them carries larger penalties: the maximum civil penalty is raised to \$25,000 per day of violation. Furthermore, the requirement to prove willfulness in civil actions is eliminated. A knowing violation of an emergency order has been made into a felony punishable by a fine and five years' imprisonment (Clean Air Act Secs. 113(c)(1) and 303 at ¶ 2113 and 2303.)

¶ 608 Citizen Suits

Citizen suits can be brought in federal court to compel action by EPA that has been unreasonably delayed or deferred. Citizen suits can also be brought to enforce the requirement to obtain a permit, the conditions of permits, and the requirements contained in state implementation plans. Finally, citizen suits can be brought with respect to past violations if there is evidence that the violation has been repeated.

The ability of citizens to challenge nondiscretionary actions of the EPA has been strengthened, because penalties can now be applied against violators (see ¶ 603). Civil penalties assessed by the courts in citizen suits are deposited in a special treasury fund for use by the EPA in beneficial mitigation projects.

Federal oversight of citizen suits is provided through additional notification requirements. The government's right to intervene is clarified and citizen plaintiffs are required to provide the U.S. with copies of pleadings and draft settlements. (Clean Air Act Secs. 304 and 307(b)(2) at ¶ 2304 and 2307.)

¶ 609 New Source Requirements

EPA can take action against a state if the state is not regulating the construction of new sources or the modification of existing sources in an area where the Clean Air Act provisions apply. Its options are to:

- Issue an order prohibiting the construction or modification of a major stationary source;
- Issue an administrative penalty order; or
- Bring a civil action. (Clean Air Act Sec. 113(a)(5) at ¶ 2113.)

¶ 607

New Source Review Authority

EPA is authorized to review new sources by issuing orders preventing the operation of major emitting facilities in areas subject to such requirements. Formalized is the current EPA interpretation that allows action against sources that are operating in violation of new source requirements. (Clean Air Act Secs. 113 and 167 at ¶ 2113 and 2167.)

Stratospheric Ozone and Climate Protection

¶ 700

¶ 701 Requirements

Ozone depleting substances are banned from sale on a phased-in basis beginning in 1991, with most of the worst offenders off the shelves by the end of the century and the rest eliminated by the year 2030. In keeping with this directive, the Environmental Protection Agency is to list specified ozone-depleting substances, their ozone-depletion potential, atmospheric lifetimes, and global warming potentials by mid-January 1991.

The phase-out dates are similar to those contained in the Montreal Protocol for the more damaging chemicals: 2000 for CFC's (chlorofluorocarbons), halon, and carbon tetrachloride; and 2002 for methyl chloroform—dubbed “Class I”—but with more stringent interim reductions. HCFC's (hydrochlorofluorocarbons)—“Class II”—which are CFC's that have been chemically altered by the addition of hydrogen and are less damaging to the stratospheric atmosphere, are to be eliminated by 2030. Regulations for the more damaging substances are due by mid-September 1991; the rules for HCFC's by the end of 1999.

Included in the phase-in is a requirement that all CFC refrigerants be controlled within two years, all other Class I and II substances within four years, and it will be illegal to vent Class I or II refrigerants after September 1, 1992. Venting of any environmentally harmful substitute refrigerant will be prohibited within five years.

Beginning January 1, 1992, companies involved with the servicing of automobile air conditioners will be required to use certified equipment and personnel, and there will be restrictions on the sale of small cans of Class I and II refrigerants. Nonessential products that result in the release of ozone-depleting chemicals will be banned within two years and, beginning in 1994, the use of HCFC's in aerosols and non-insulating foams will be regulated.

Warning labels will be required to be placed on all substances covered by the rules, effective within four years. EPA is to publish a list of safe and unsafe uses for the restricted chemicals as soon after they are identified as possible, and all such products must be labeled by 2015.

Effective immediately, the law requires a prohibition on the exportation of technologies for the production of Class I substances and on investments to produce Class I or II substances in nations that are not parties to the Montreal Protocol. EPA may, at its discretion, grant exemptions to the export ban on a case-by-case basis. (Clean Air Act Amendments of 1990 Title VI at ¶ 2601.)

Miscellaneous Provisions

¶ 800

¶ 801 Offshore Oil and Gas Operations

Exclusive of the main oil and gas producing regions in the Gulf of Mexico, the Environmental Protection Agency has one year to develop a program to control air pollution caused by operations on the outer continental shelf within 25 miles of shore. Exemptions are available if compliance is technologically infeasible or will cause an unreasonable threat to health and safety. States that want to administer the program, the restrictions of which will correspond to those in effect for onshore areas, may do so under delegations from EPA. Within three years, the Department of the Interior is expected to complete a study of oil- and gas-related OCS operations in the excluded areas, which are generally offshore Texas, Louisiana, Mississippi, and Alabama. (Clean Air Act Sec. 328 at ¶ 2328.)

¶ 802 Stripper Wells

Notwithstanding the new restrictions of general application that arose under the Clean Air Act amendments, many of the provisions do not apply to the production of and equipment used in the exploration, production, development, storage, or processing of stripper well oil or natural gas. (Clean Air Act Amendments of 1990 Sec. 819 at ¶ 3819.)

¶ 803 Research

The Environmental Protection Agency is required to conduct more research on the causes and effects of air pollution, including measurements of specific pollutants and their impact on the public health, and development of models for predicting accidental releases of emissions and strategies for the control of industrial pollution. Not less than 10% of the total federal funding for clean air research that is generated by the Clean Air Act Amendments of 1990 must be made available to "disadvantaged business concerns." (Clean Air Act Amendments of 1990 Secs. 901 and 1001 at ¶ 3901 and 4001.)

¶ 804 Displaced Worker Assistance

Specifically intended to help high sulfur coal miners who lose their jobs because of mine closings resulting from lessened demand for "dirty" coal, an additional \$50 million a year is authorized to be made available to assist unemployed workers under the Job Partnership Training Act. In addition to the benefits normally available under that program, dislocated coal miners will be eligible for job search allowances, relocation assistance, and extended unemployment insurance benefits. (Clean Air Act Amendments of 1990 Sec. 1101 at ¶ 4101.)

Clean Air Act

[¶ 2100]

Public Law 88-206, 77 Stat. 392, December 17, 1963, 42 U.S.C. 7401 et seq., as last amended by the Clean Air Act Amendments of 1990, P.L. 101-549, November 15, 1990.

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An Act to improve, strengthen and accelerate programs for the prevention and abatement of air pollution.

TITLE I—Air Pollution Prevention and Control**PART A—AIR QUALITY AND EMISSION LIMITATIONS****[¶ 2101]****Sec. 101. FINDING AND PURPOSES**

(a) The Congress finds—

(1) that the predominant part of the Nation's population is located in its rapidly expanding metropolitan and other urban areas, which generally cross the boundary lines of local jurisdictions and often extend into two or more States;

(2) that the growth in the amount and complexity of air pollution brought about by urbanization, industrial development, and the increasing use of motor vehicles, has resulted in mounting dangers to the public health and welfare, including injury to agricultural crops and livestock, damage to and the deterioration of property, and hazards to air and ground transportation;

(3) that air pollution prevention (that is, the reduction or elimination, through any measures, of the amount of pollutants produced or created at the source) and air pollution control at its source is the primary responsibility of States and local governments; and

(4) that Federal financial assistance and leadership is essential for the development of cooperative Federal, State, regional, and local programs to prevent and control air pollution.

(b) The purposes of this title are—

(1) to protect and enhance the quality of the Nation's air resources so as to promote the public health and welfare and the productive capacity of its population;

(2) to initiate and accelerate a national research and development program to achieve the prevention and control of air pollution;

(3) to provide technical and financial assistance to State and local governments in connection with the development and execution of their air pollution prevention and control programs; and

(4) to encourage and assist the development and operation of regional air pollution prevention and control programs.

(c) **POLLUTION PREVENTION.**—A primary goal of this Act is to encourage or otherwise promote reasonable Federal, State, and local governmental actions, consistent with the provisions of this Act, for pollution prevention.

[¶ 2102]**Sec. 102. COOPERATIVE ACTIVITIES AND UNIFORM LAWS**

(a) The Administrator shall encourage cooperative activities by the States and local governments for the prevention and control of air pollution;

encourage the enactment of improved and, so far as practicable in the light of varying conditions and needs, uniform State and local laws relating to the prevention and control of air pollution; and encourage the making of agreements and compacts between States for the prevention and control of air pollution.

(b) The Administrator shall cooperate with and encourage cooperative activities by all Federal departments and agencies having functions relating to the prevention and control of air pollution, so as to assure the utilization in the Federal air pollution control program of all appropriate and available facilities and resources within the Federal Government.

(c) The consent of the Congress is hereby given to two or more States to negotiate and enter into agreements or compacts, not in conflict with any law or treaty of the United States, for (1) cooperative effort and mutual assistance for the prevention and control of air pollution and the enforcement of their respective laws relating thereto, and (2) the establishment of such agencies, joint or otherwise, as they may deem desirable for making effective such agreements or compacts. No such agreement or compact shall be binding or obligatory upon any State a party thereto unless and until it has been approved by Congress. It is the intent of Congress that no agreement or compact entered into between States after the date of enactment of the Air Quality Act of 1967, which relates to the control and abatement of air pollution in an air quality control region, shall provide for participation by a State which is not included (in whole or in part) in such air quality control region.

[¶ 2103]

Sec. 103. RESEARCH INVESTIGATIONS, TRAINING, AND OTHER ACTIVITIES

(a) The Administrator shall establish a national research and development program for the prevention and control of air pollution and as part of such program shall—

(1) conduct, and promote the coordination and acceleration of, research, investigations, experiments, demonstrations, surveys and studies relating to the causes, effects, (including health and welfare effects) extent, prevention, and control of air pollution;

(2) encourage, cooperate with, and render technical services and provide financial assistance to air pollution control agencies and other appropriate public or private agencies, institutions, and organizations, and individuals in the conduct of such activities;

(3) conduct investigations and research and make surveys concerning any specific problem of air pollution in cooperation with any air pollution control agency with a view to recommending a solution of such problem, if he is requested to do so by such agency or if, in his judgment, such problem may affect any community or communities in a State other than that in which the source of the matter causing or contributing to the pollution is located;

(4) establish technical advisory committees composed of recognized experts in various aspects of air pollution to assist in the examination and evaluation of research progress and proposals and to avoid duplication of research; and

(5) conduct and promote coordination and acceleration of training for individuals relating to the causes, effects, extent, prevention, and control of air pollution.

(b) In carrying out the provisions of the preceding subsection, the Administrator is authorized to—

(1) collect and make available, through publications and other appropriate means, the results of and other information, including appropriate recommendations by him in connection therewith, pertaining to such research and other activities;

(2) cooperate with other Federal departments and agencies, with air pollution control agencies, with other public and private agencies, institutions, and organizations, and with any industries involved, in the preparation and conduct of such research and other activities;

(3) make grants to air pollution control agencies, to other public or nonprofit private agencies, institutions, and organizations, and to individuals, for purposes stated in subsection (a)(1) of this section;

(4) contract with public or private agencies, institutions, and organizations, and with individuals, without regard to sections 3648 and 3709 of the Revised Statutes (31 U. S. C. 529; 41 U. S. C. 5);

(5) establish and maintain research fellowships in the Environmental Protection Agency and at public or nonprofit private educational institutions or research organizations;

(6) collect and disseminate, in cooperation with other Federal departments and agencies, and with other public or private agencies, institutions, and organizations having related responsibilities, basic data on chemical, physical, and biological effects of varying air quality and other information pertaining to air pollution and the prevention and control thereof;

(7) develop effective and practical processes, methods, and prototype devices for the prevention or control of air pollution; and

(8) construct facilities, provide equipment and employ staff as necessary to carry out this Act.

In carrying out the provisions of subsection (a), the Administrator shall provide training for, and make training grants to, personnel of air pollution control agencies and other persons with suitable qualifications and make grants to such agencies, to other public or nonprofit private agencies, institutions, and organizations for the purposes stated in subsection (a)(5). Reasonable fees may be charged for such training provided to persons other than personnel of air pollution control agencies but such training shall be provided to such personnel of air pollution control agencies without charge.

(c) **AIR POLLUTANT MONITORING, ANALYSIS, MODELING, AND INVENTORY RESEARCH.**—In carrying out subsection (a), the Administrator shall conduct a program of research, testing, and development of methods for sampling, measurement, monitoring, analysis, and modeling of air pollutants. Such program shall include the following elements:

(1) Consideration of individual, as well as complex mixtures of, air pollutants and their chemical transformations in the atmosphere.

(2) Establishment of a national network to monitor, collect, and compile data with quantification of certainty in the status and trends of air emissions, deposition, air quality, surface water quality, forest condition, and visibility impairment, and to ensure the comparability of air quality data collected in different States and obtained from different nations.

(3) Development of improved methods and technologies for sampling, measurement, monitoring, analysis, and modeling to increase understanding of the sources of ozone precursors, ozone formation, ozone transport, regional influences on urban ozone, regional ozone trends, and interactions of ozone with other pollutants. Emphasis shall be placed on those techniques which—

(A) improve the ability to inventory emissions of volatile organic compounds and nitrogen oxides that contribute to urban air pollution, including anthropogenic and natural sources;

(B) improve the understanding of the mechanism through which anthropogenic and biogenic volatile organic compounds react to form ozone and other oxidants; and

(C) improve the ability to identify and evaluate region-specific prevention and control options for ozone pollution.

(4) Submission of periodic reports to the Congress, not less than once every 5 years, which evaluate and assess the effectiveness of air pollution control regulations and programs using monitoring and modeling data obtained pursuant to this subsection.

(d) **ENVIRONMENTAL HEALTH EFFECTS RESEARCH.**—(1) The Administrator, in consultation with the Secretary of Health and Human Services, shall conduct a research program on the short-term and long-term effects of air pollutants, including wood smoke, on human health. In conducting such research program the Administrator—

(A) shall conduct studies, including epidemiological, clinical, and laboratory and field studies, as necessary to identify and evaluate exposure to and effects of air pollutants on human health;

(B) may utilize, on a reimbursable basis, the facilities of existing Federal scientific laboratories and research centers; and

(C) shall consult with other Federal agencies to ensure that similar research being conducted in other agencies is coordinated to avoid duplication.

(2) In conducting the research program under this subsection, the Administrator shall develop methods and techniques necessary to identify and assess the risks to human health from both routine and accidental exposures to individual air pollutants and combinations thereof. Such research program shall include the following elements:

(A) The creation of an Interagency Task Force to coordinate such program. The Task Force shall include representatives of the National Institute for Environmental Health Sciences, the Environmental Protection Agency, the Agency for Toxic Substances and Disease Registry, the National Toxicology Program, the National Institute of Standards and Technology, the National Science Foundation, the Surgeon General, and the Department of Energy. This Interagency Task Force shall be chaired by a representative of the Environmental Protection Agency and shall convene its first meeting within 60 days after the date of enactment of this subparagraph.

(B) An evaluation, within 12 months after the date of enactment of this paragraph, of each of the hazardous air pollutants listed under section 112(b) of this Act, to decide, on the basis of available information, their relative priority for preparation of environmental health assessments pursuant to subparagraph (C). The evaluation shall be based on reasonably anticipated toxicity to humans and exposure factors such as frequency of occurrence as an air pollutant and volume of emissions in populated areas. Such evaluation shall be reviewed by the Interagency Task Force established pursuant to subparagraph (A).

(C) Preparation of environmental health assessments for each of the hazardous air pollutants referred to in subparagraph (B), beginning 6 months after the first meeting of the Interagency Task Force and to be completed within 96 months thereafter. No fewer than 24 assessments shall be completed and published annually. The assessments shall be prepared in accordance with guidelines developed by the Administrator in consultation with the Interagency Task Force and the Science Advisory Board of the Environmental Protection Agency. Each such assessment shall include—

(i) an examination, summary, and evaluation of available toxicological and epidemiological information for the pollutant to ascertain the levels of human exposure which pose a significant threat to human health and the associated acute, subacute, and chronic adverse health effects;

(ii) a determination of gaps in available information related to human health effects and exposure levels; and

(iii) where appropriate, an identification of additional activities, including toxicological and inhalation testing, needed to identify the types or levels of exposure which may present significant risk of adverse health effects in humans.

(e) **ECOSYSTEM RESEARCH.**—In carrying out subsection (a), the Administrator, in cooperation, where appropriate, with the Under Secretary of Commerce for Oceans and Atmosphere, the Director of the Fish and Wildlife Service, and the Secretary of Agriculture, shall conduct a research program to improve understanding of the short-term and long-term causes, effects, and trends of ecosystems damage from air pollutants on ecosystems. Such program shall include the following elements:

(1) Identification of regionally representative and critical ecosystems for research.

(2) Evaluation of risks to ecosystems exposed to air pollutants, including characterization of the causes and effects of chronic and episodic exposures to air pollutants and determination of the reversibility of those effects.

(3) Development of improved atmospheric dispersion models and monitoring systems and networks for evaluating and quantifying exposure to and effects of multiple environmental stresses associated with air pollution.

(4) Evaluation of the effects of air pollution on water quality, including assessments of the short-term and long-term ecological effects of acid deposition and other atmospherically derived pollutants on surface water (including wetlands and estuaries) and groundwater.

(5) Evaluation of the effects of air pollution on forests, materials, crops, biological diversity, soils, and other terrestrial and aquatic systems exposed to air pollutants.

(6) Estimation of the associated economic costs of ecological damage which have occurred as a result of exposure to air pollutants.

Consistent with the purpose of this program, the Administrator may use the estuarine research reserves established pursuant to section 315 of the Coastal Zone Management Act of 1972 (16 U.S.C. 1461) to carry out this research.

(f) **LIQUEFIED GASEOUS FUELS SPILL TEST FACILITY.**—(1) The Administrator, in consultation with the Secretary of Energy and the Federal Coordinating Council for Science, Engineering, and Technology, shall oversee an experimental and analytical research effort, with the experimental research to be carried out at the Liquefied Gaseous Fuels Spill Test Facility. In consultation with the Secretary of Energy, the Administrator shall develop a list of chemicals and a schedule for field testing at the Facility. Analysis of a minimum of 10 chemicals per year shall be carried out, with the selection of a minimum of 2 chemicals for field testing each year. Highest priority shall be given to those chemicals that would present the greatest potential risk to human health as a result of an accidental release—

(A) from a fixed site; or

(B) related to the transport of such chemicals.

(2) The purpose of such research shall be to—

(A) develop improved predictive models for atmospheric dispersion which at a minimum—

(i) describe dense gas releases in complex terrain including man-made structures or obstacles with variable winds;

(ii) improve understanding of the effects of turbulence on dispersion patterns; and

(iii) consider realistic behavior of aerosols by including physicochemical reactions with water vapor, ground deposition, and removal by water spray;

(B) evaluate existing and future atmospheric dispersion models by—

(i) the development of a rigorous, standardized methodology for dense gas models; and

(ii) the application of such methodology to current dense gas dispersion models using data generated from field experiments; and

(C) evaluate the effectiveness of hazard mitigation and emergency response technology for fixed site and transportation related accidental releases of toxic chemicals.

Models pertaining to accidental release shall be evaluated and improved periodically for their utility in planning and implementing evacuation procedures and other mitigative strategies designed to minimize human exposure to hazardous air pollutants released accidentally.

(3) The Secretary of Energy shall make available to interested persons (including other Federal agencies and businesses) the use of the Liquefied Gaseous Fuels Spill Test Facility to conduct research and other activities in connection with the activities described in this subsection.

(g) POLLUTION PREVENTION AND EMISSIONS CONTROL.—In carrying out subsection (a), the Administrator shall conduct a basic engineering research and technology program to develop, evaluate, and demonstrate nonregulatory strategies and technologies for air pollution prevention. Such strategies and technologies shall be developed with priority on those pollutants which pose a significant risk to human health and the environment, and with opportunities for participation by industry, public interest groups, scientists, and other interested persons in the development of such strategies and technologies. Such program shall include the following elements:

(1) Improvements in nonregulatory strategies and technologies for preventing or reducing multiple air pollutants, including sulfur oxides, nitrogen oxides, heavy metals, PM-10 (particulate matter), carbon monoxide, and carbon dioxide, from stationary sources, including fossil fuel power plants. Such strategies and technologies shall include improvements in the relative cost effectiveness and long-range implications of various air pollutant reduction and nonregulatory control strategies such as energy conservation, including end-use efficiency, and fuel-switching to

cleaner fuels. Such strategies and technologies shall be considered for existing and new facilities.

(2) Improvements in nonregulatory strategies and technologies for reducing air emissions from area sources.

(3) Improvements in nonregulatory strategies and technologies for preventing, detecting, and correcting accidental releases of hazardous air pollutants.

(4) Improvements in nonregulatory strategies and technologies that dispose of tires in ways that avoid adverse air quality impacts.

Nothing in this subsection shall be construed to authorize the imposition on any person of air pollution control requirements. The Administrator shall consult with other appropriate Federal agencies to ensure coordination and to avoid duplication of activities authorized under this subsection.

(h) NIEHS STUDIES.—(1) The Director of the National Institute of Environmental Health Sciences may conduct a program of basic research to identify, characterize, and quantify risks to human health from air pollutants. Such research shall be conducted primarily through a combination of university and medical school-based grants, as well as through intramural studies and contracts.

(2) The Director of the National Institute of Environmental Health Sciences shall conduct a program for the education and training of physicians in environmental health.

(3) The Director shall assure that such programs shall not conflict with research undertaken by the Administrator.

(4) There are authorized to be appropriated to the National Institute of Environmental Health Sciences such sums as may be necessary to carry out the purposes of this subsection.

(i) COORDINATION OF RESEARCH.—The Administrator shall develop and implement a plan for identifying areas in which activities authorized under this section can be carried out in conjunction with other Federal ecological and air pollution research efforts. The plan, which shall be submitted to Congress within 6 months after the date of enactment of this subsection, shall include—

(1) an assessment of ambient monitoring stations and networks to determine cost effective ways to expand monitoring capabilities in both urban and rural environments;

(2) a consideration of the extent of the feasibility and scientific value of conducting the research program under subsection (e) to include consideration of the effects of atmospheric processes and air pollution effects; and

(3) a methodology for evaluating and ranking pollution prevention technologies, such as those developed under subsection (g), in terms of their ability to reduce cost effectively the emissions of air pollutants and other airborne chemicals of concern.

Not later than 2 years after the date of enactment of this subsection, and every 4 years thereafter, the Administrator shall report to Congress on the progress made in implementing the plan developed under this subsection, and shall include in such report any revisions of the plan.

(j) CONTINUATION OF THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM.—

(1) The acid precipitation research program set forth in the Acid Precipitation Act of 1980 shall be continued with modifications pursuant to this subsection.

(2) The Acid Precipitation Task Force shall consist of the Administrator of the Environmental Protection Agency, the Secretary of Energy, the Secretary of the Interior, the Secretary of Agriculture, the Administrator of the National Oceanic and Atmospheric Administration, the Administrator of the National Aeronautics and Space Administration, and such additional members as the President may select. The President shall appoint a chairman for the Task Force from among its members within 30 days after the date of enactment of this subsection.

(3) The responsibilities of the Task Force shall include the following:

(A) Review of the status of research activities conducted to date under the comprehensive research plan developed pursuant to the Acid Precipitation Act of 1980, and development of a revised plan that identifies significant research gaps and establishes a coordinated program to address current and future research priorities. A draft of the revised plan shall be submitted by the Task Force to Congress within 6 months after the date of enactment of this subsection. The plan shall be available for public comment during the 60 day period after its submission, and a final plan shall be submitted by the President to the Congress within 45 days after the close of the comment period.

(B) Coordination with participating Federal agencies, augmenting the agencies' research and monitoring efforts and sponsoring additional research in the scientific community as necessary to ensure the availability and quality of data and methodologies needed to evaluate the status and effectiveness of the acid deposition control program. Such research and monitoring efforts shall include, but not be limited to—

(i) continuous monitoring of emissions of precursors of acid deposition;

(ii) maintenance, upgrading, and application of models, such as the Regional Acid Deposition Model, that describe the interactions of emissions with the atmosphere, and models that describe the response of ecosystems to acid deposition; and

(iii) analysis of the costs, benefits, and effectiveness of the acid deposition control program.

(C) Publication and maintenance of a National Acid Lakes Registry that tracks the condition and change over time of a statistically representative sample of lakes in regions that are known to be sensitive to surface water acidification.

(D) Submission every two years of a unified budget recommendation to the President for activities of the Federal Government in connection with the research program described in this subsection.

(E) Beginning in 1992 and biennially thereafter, submission of a report to Congress describing the results of its investigations and analyses. The reporting of technical information about acid deposition shall be provided in a format that facilitates communication with policymakers and the public. The report shall include—

(i) actual and projected emissions and acid deposition trends;

(ii) average ambient concentrations of acid deposition precursors and their transformation products;

(iii) the status of ecosystems (including forests and surface waters), materials, and visibility affected by acid deposition;

(iv) the causes and effects of such deposition, including changes in surface water quality and forest and soil conditions;

(v) the occurrence and effects of episodic acidification, particularly with respect to high elevation watersheds; and

(vi) the confidence level associated with each conclusion to aid policymakers in use of the information.

(F) Beginning in 1996, and every 4 years thereafter, the report under subparagraph (E) shall include—

(i) the reduction in deposition rates that must be achieved in order to prevent adverse ecological effects; and

(ii) the costs and benefits of the acid deposition control program created by title IV of this Act.

(k) AIR POLLUTION CONFERENCES.—If, in the judgment of the Administrator, an air pollution problem of substantial significance may result from discharge or discharges into the atmosphere, the Administrator may call a conference concerning this potential air pollution problem to be held in or near one or more of the places where such discharge or discharges are occurring or will occur. All interested persons shall be given an opportunity to be heard at such conference, either orally or in writing, and shall be permitted to appear in person or by representative in accordance with procedures prescribed by the Administrator. If the Administrator finds, on the basis of the evidence presented at such conference, that the discharge or discharges if permitted to take place or continue are likely to cause or contribute to air pollution subject to abatement under part A of title I, the Administrator shall send such findings, together with recommendations concerning the measures which the Administrator finds reasonable and suitable to prevent such pollution, to the

person or persons whose actions will result in the discharge or discharges involved; to air pollution agencies of the State or States and of the municipality or municipalities where such discharge or discharges will originate; and to the interstate air pollution control agency, if any, in the jurisdictional area of which any such municipality is located. Such findings and recommendations shall be advisory only, but shall be admitted together with the record of the conference, as part of the proceedings under subsections (b), (c), (d), (e), and (f) of section 108.

[¶ 2104]

Sec. 104. RESEARCH RELATING TO FUELS AND VEHICLES

(a) The Administrator shall give special emphasis to research and development into new and improved methods having industrywide application for the prevention and control of air pollution resulting from the combustion of fuels. In furtherance of such research and development he shall—

(1) conduct and accelerate research programs directed toward development of improved, cost-effective techniques for—

(A) control of combustion byproducts of fuels,

(B) removal of potential air pollutants from fuels prior to combustion,

(C) control of emissions from the evaporation of fuels,

(D) improving the efficiency of fuels combustion so as to decrease atmospheric emissions, and

(E) producing synthetic or new fuels which, when used, result in decreased atmospheric emissions;

(2) provide for Federal grants to public or nonprofit agencies, institutions, and organizations and to individuals, and contracts with public or private agencies, institutions, or persons, or payment of (A) part of the cost of acquiring, constructing, or otherwise securing, for research and development purposes, new or improved devices or methods having industrywide application, of preventing or controlling discharges into the air of various types of pollutants; (B) part of the cost of programs to develop low emission alternatives to the present internal combustion engine; (C) the cost to purchase vehicles and vehicle engines or portions thereof for research, development, and testing purposes; and (D) carrying out the other provisions of this section, without regard to sections 3648 and 3709 of the Revised Statutes (31 U. S. C. 529; 41 U. S. C. 5): Provided, That research or demonstration contracts awarded pursuant to this subsection (including contracts for construction) may be made in accordance with, and subject to the limitations provided with respect to research contracts of the military departments in, section 2353 of title 10, United States Code, except that the determination, approval, and certification required thereby shall be made by the Administrator: Provided further, That no grant may be made under this paragraph in excess of \$1,500,000;

(3) determine, by laboratory and pilot-plant testing, the results of air pollution research and studies in order to develop new or improved processes and plant designs to the point where they can be demonstrated on a large and practical scale;

(4) construct, operate, and maintain, or assist in meeting the cost of the construction, operation, and maintenance of new or improved demonstration plants or processes which have promise of accomplishing the purposes of this Act;

(5) study new or improved methods for the recovery and marketing of commercially valuable by-products resulting from the removal of pollutants.

(b) In carrying out the provisions of this section, the Administrator may—

(1) conduct and accelerate research and development of cost-effective instrumentation techniques to facilitate determination of quantity and quality of air pollutant emissions, including, but not limited to, automotive emissions;

(2) utilize, on a reimbursable basis, the facilities of existing Federal scientific laboratories;

(3) establish and operate necessary facilities and test sites at which to carry on the research, testing, development, and programming necessary to effectuate the purposes of this section;

(4) acquire secret processes, technical data, inventions, patent applications, patents, licenses, and an interest in lands, plants, and facilities, and other property or rights by purchase, license, lease, or donation; and

(5) cause on-site inspections to be made of promising domestic and foreign projects, and cooperate and participate in their development in instances in which the purposes of the Act will be served thereby.

(c) **CLEAN ALTERNATIVE FUELS.**—The Administrator shall conduct a research program to identify, characterize, and predict air emissions related to the production, distribution, storage, and use of clean alternative fuels to determine the risks and benefits to human health and the environment relative to those from using conventional gasoline and diesel fuels. The Administrator shall consult with other Federal agencies to ensure coordination and to avoid duplication of activities authorized under this subsection.

[¶ 2105]

Sec. 105. GRANTS FOR SUPPORT OF AIR POLLUTION PLANNING AND CONTROL PROGRAMS

(a)(1)(A) The Administrator may make grants to air pollution control agencies, within the meaning of paragraph (1), (2), (3), (4), or (5) of section 302, in an amount up to three-fifths of the cost of implementing programs for the prevention and control of air pollution or implementation of national primary and secondary ambient air quality standards. For the purpose of this

section, "implementing" means any activity related to the planning, developing, establishing, carrying-out, improving, or maintaining of such programs.

(B) Subject to subsections (b) and (c) of this section, an air pollution control agency which receives a grant under subparagraph (A) and which contributes less than the required two-fifths minimum shall have 3 years following the date of the enactment of the Clean Air Act Amendments of 1990 in which to contribute such amount. If such an agency fails to meet and maintain this required level, the Administrator shall reduce the amount of the Federal contribution accordingly.

(C) With respect to any air quality control region or portion thereof for which there is an applicable implementation plan under section 110, grants under subparagraph (A) may be made only to air pollution control agencies which have substantial responsibilities for carrying out such applicable implementation plan.

(2) Before approving any grant under this subsection to any air pollution control agency within the meaning of sections 302(b)(2) and 302(b)(4), the Administrator shall receive assurances that such agency provides for adequate representation of appropriate State, interstate, local, and (when appropriate) international, interests in the air quality control region.

(3) Before approving any planning grant under this subsection to any air pollution control agency within the meaning of sections 302(b)(2) and 302(b)(4), the Administrator shall receive assurances that such agency has the capability of developing a comprehensive air quality plan for the air quality control region, which plan shall include (when appropriate) a recommended system of alerts to avert and reduce the risk of situations in which there may be imminent and serious danger to the public health or welfare from air pollutants and the various aspects relevant to the establishment of air quality standards for such air quality control region, including the concentration of industries, other commercial establishments, population and naturally occurring factors which shall affect such standards.

(b)(1) From the sums available for the purposes of subsection (a) of this section for any fiscal year, the Administrator shall from time to time make grants to air pollution control agencies upon such terms and conditions as the Administrator may find necessary to carry out the purpose of this section. In establishing regulations for the granting of such funds the Administrator shall, so far as practicable, give due consideration to (A) the population, (B) the extent of the actual or potential air pollution problem, and (C) the financial need of the respective agencies.

(2) Not more than 10 per centum of the total of funds appropriated or allocated for the purposes of subsection (a) of this section shall be granted for air pollution control programs in any one State. In the case of a grant for a program in an area crossing State boundaries, the Administrator shall determine the portion of such grant that is chargeable to the percentage limitation under this subsection for each State into which such

area extends. Subject to the provisions of paragraph (1) of this subsection, no State shall have made available to it for application less than one-half of 1 per centum of the annual appropriation for grants under this section for grants to agencies within such State.

(c) **MAINTENANCE OF EFFORT.**—(1) No agency shall receive any grant under this section during any fiscal year when its expenditures of non-Federal funds for recurrent expenditures for air pollution control programs will be less than its expenditures were for such programs during the preceding fiscal year. In order for the Administrator to award grants under this section in a timely manner each fiscal year, the Administrator shall compare an agency's prospective expenditure level to that of its second preceding fiscal year. The Administrator shall revise the current regulations which define applicable nonrecurrent and recurrent expenditures, and in so doing, give due consideration to exempting an agency from the limitations of this paragraph and subsection (a) due to periodic increases experienced by that agency from time to time in its annual expenditures for purposes acceptable to the Administrator for that fiscal year.

(2) The Administrator may still award a grant to an agency not meeting the requirements of paragraph (1) of this subsection if the Administrator, after notice and opportunity for public hearing, determines that a reduction in expenditures is attributable to a non-selective reduction in the expenditures in the programs of all Executive branch agencies of the applicable unit of Government. No agency shall receive any grant under this section with respect to the maintenance of a program for the prevention and control of air pollution unless the Administrator is satisfied that such a grant will be so used to supplement and, to the extent practicable, increase the level of State, local, or other non-Federal funds. No grants shall be made under this section until the Administrator has consulted with the appropriate official as designated by the Governor or Governors of the State or States affected.

(d) The Administrator, with the concurrence of any recipient of a grant under this section, may reduce the payments to such recipient by the amount of the pay, allowances, traveling expenses, and any other costs in connection with the detail of any officer or employee to the recipient under section 301 of this Act, when such detail is for the convenience of, and at the request of, such recipient and for the purpose of carrying out the provisions of this Act. The amount by which such payments have been reduced shall be available for payment of such costs by the Administrator, but shall, for the purpose of determining the amount of any grant to a recipient under subsection (a) of this section, be deemed to have been paid to such agency.

(e) No application by a State for a grant under this section may be disapproved by the Administrator without prior notice and opportunity for a public hearing in the affected State, and no commitment or obligation of any funds under any such grant may be revoked or reduced without prior notice and opportunity for a public hearing in the affected State (or in one of the affected States if more than one State is affected).

[¶ 2106]**Sec. 106. INTERSTATE AIR QUALITY AGENCIES OR COMMISSIONS**

For the purpose of developing implementation plans for any interstate air quality control region designated pursuant to section 107 or of implementing section 176A (relating to control of interstate air pollution) or section 184 (relating to control of interstate ozone pollution), the Administrator is authorized to pay, for two years, up to 100 per centum of the air quality planning program costs of any commission established under section 176A (relating to control of interstate air pollution) or section 184 (relating to control of interstate ozone pollution) or any agency designated by the Governors of the affected States, which agency shall be capable of recommending to the Governors plans for implementation of national primary and secondary ambient air quality standards and shall include representation from the States and appropriate political subdivisions within the air quality control region. After the initial two-year period the Administrator is authorized to make grants to such agency or such commission in an amount up to three-fifths of the air quality implementation program costs of such agency or commission.

[¶ 2107]**Sec. 107. AIR QUALITY CONTROL REGIONS**

(a) Each State shall have the primary responsibility for assuring air quality within the entire geographic area comprising such State by submitting an implementation plan for such State which will specify the manner in which national primary and secondary ambient air quality standards will be achieved and maintained within each air quality control region in such State.

(b) For purposes of developing and carrying out implementation plans under section 110—

(1) an air quality control region designated under this section before the date of enactment of the Clean Air Amendments of 1970, or a region designated after such date under subsection (c), shall be an air quality control region; and

(2) the portion of such State [that] is not part of any such designated region shall be an air quality control region, but such portion may be subdivided by the State into two or more air quality control regions with the approval of the Administrator.

(c) The Administrator shall, within 90 days after the date of enactment of the Clean Air Amendments of 1970, after consultation with appropriate State and local authorities, designate as an air quality control region any interstate area or major intrastate area which he deems necessary or appropriate for the attainment and maintenance of ambient air quality standards. The Administrator shall immediately notify the governors of the affected States of any designation made under this subsection.

(d) DESIGNATIONS.—

(1) DESIGNATIONS GENERALLY.—

(A) SUBMISSION BY GOVERNORS OF INITIAL DESIGNATIONS FOLLOWING PROMULGATION OF NEW OR REVISED STANDARDS.—By such date as the Administrator may reasonably require, but not later than 1 year after promulgation of a new or revised national ambient air quality standard for any pollutant under section 109, the Governor of each State shall (and at any other time the Governor of a State deems appropriate the Governor may) submit to the Administrator a list of all areas (or portions thereof) in the State, designating as—

(i) nonattainment, any area that does not meet (or that contributes to ambient air quality in a nearby area that does not meet) the national primary or secondary ambient air quality standard for the pollutant,

(ii) attainment, any area (other than an area identified in clause (i)) that meets the national primary or secondary ambient air quality standard for the pollutant, or

(iii) unclassifiable, any area that cannot be classified on the basis of available information as meeting or not meeting the national primary or secondary ambient air quality standard for the pollutant.

The Administrator may not require the Governor to submit the required list sooner than 120 days after promulgating a new or revised national ambient air quality standard.

(B) PROMULGATION BY EPA OF DESIGNATIONS.—(i) Upon promulgation or revision of a national ambient air quality standard, the Administrator shall promulgate the designations of all areas (or portions thereof) submitted under subparagraph (A) as expeditiously as practicable, but in no case later than 2 years from the date of promulgation of the new or revised national ambient air quality standard. Such period may be extended for up to one year in the event the Administrator has insufficient information to promulgate the designations.

(ii) In making the promulgations required under clause (i), the Administrator may make such modifications as the Administrator deems necessary to the designations of the areas (or portions thereof) submitted under subparagraph (A) (including to the boundaries of such areas or portions thereof). Whenever the Administrator intends to make a modification, the Administrator shall notify the State and provide such State with an opportunity to demonstrate why any proposed modification is inappropriate. The Administrator shall give such notification no later than 120 days before the date the Administrator promulgates the designation, including any modification thereto. If the Governor fails to submit the list in whole or in part, as required under subparagraph (A), the Administrator shall promulgate the designation that the Administrator deems appropriate for any area (or portion thereof) not designated by the State.

(iii) If the Governor of any State, on the Governor's own motion, under subparagraph (A), submits a list of areas (or portions thereof) in the State designated as nonattainment, attainment, or unclassifiable, the Administrator shall act on such designations in accordance with the procedures under paragraph (3) (relating to redesignation).

(iv) A designation for an area (or portion thereof) made pursuant to this subsection shall remain in effect until the area (or portion thereof) is redesignated pursuant to paragraph (3) or (4).

(C) DESIGNATIONS BY OPERATION OF LAW.—(i) Any area designated with respect to any air pollutant under the provisions of paragraph (1)(A), (B), or (C) of this subsection (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) is designated, by operation of law, as a nonattainment area for such pollutant within the meaning of subparagraph (A)(i).

(ii) Any area designated with respect to any air pollutant under the provisions of paragraph (1)(E) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) is designated by operation of law, as an attainment area for such pollutant within the meaning of subparagraph (A)(ii).

(iii) Any area designated with respect to any air pollutant under the provisions of paragraph (1)(D) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) is designated, by operation of law, as an unclassifiable area for such pollutant within the meaning of subparagraph (A)(iii).

(2) PUBLICATION OF DESIGNATIONS AND REDESIGNATIONS.—(A) The Administrator shall publish a notice in the Federal Register promulgating any designation under paragraph (1) or (5), or announcing any designation under paragraph (4), or promulgating any redesignation under paragraph (3).

(B) Promulgation or announcement of a designation under paragraph (1), (4) or (5) shall not be subject to the provisions of sections 553 through 557 of title 5 of the United States Code (relating to notice and comment), except nothing herein shall be construed as precluding such public notice and comment whenever possible.

(3) REDESIGNATION.—(A) Subject to the requirements of subparagraph (E), and on the basis of air quality data, planning and control considerations, or any other air quality-related considerations the Administrator deems appropriate, the Administrator may at any time notify the Governor of any State that available information indicates that the designation of any area or portion of an area within the State or interstate area should be revised. In issuing such notification, which shall be

public, to the Governor, the Administrator shall provide such information as the Administrator may have available explaining the basis for the notice.

(B) No later than 120 days after receiving a notification under subparagraph (A), the Governor shall submit to the Administrator such redesignation, if any, of the appropriate area (or areas) or portion thereof within the State or interstate area, as the Governor considers appropriate.

(C) No later than 120 days after the date described in subparagraph (B) (or paragraph (1)(B)(iii)), the Administrator shall promulgate the redesignation, if any, of the area or portion thereof, submitted by the Governor in accordance with subparagraph (B), making such modifications as the Administrator may deem necessary, in the same manner and under the same procedure as is applicable under clause (ii) of paragraph (1)(B), except that the phrase "60 days" shall be substituted for the phrase "120 days" in that clause. If the Governor does not submit, in accordance with subparagraph (B), a redesignation for an area (or portion thereof) identified by the Administrator under subparagraph (A), the Administrator shall promulgate such redesignation, if any, that the Administrator deems appropriate.

(D) The Governor of any State may, on the Governor's own motion, submit to the Administrator a revised designation of any area or portion thereof within the State. Within 18 months of receipt of a complete State redesignation submittal, the Administrator shall approve or deny such redesignation. The submission of a redesignation by a Governor shall not affect the effectiveness or enforceability of the applicable implementation plan for the State.

(E) The Administrator may not promulgate a redesignation of a nonattainment area (or portion thereof) to attainment unless—

(i) the Administrator determines that the area has attained the national ambient air quality standard;

(ii) the Administrator has fully approved the applicable implementation plan for the area under section 110(k);

(iii) the Administrator determines that the improvement in air quality is due to permanent and enforceable reductions in emissions resulting from implementation of the applicable implementation plan and applicable Federal air pollutant control regulations and other permanent and enforceable reductions;

(iv) the Administrator has fully approved a maintenance plan for the area as meeting the requirements of section 175A; and

(v) the State containing such area has met all requirements applicable to the area under section 110 and part D.

(F) The Administrator shall not promulgate any redesignation of any area (or portion thereof) from nonattainment to unclassifiable.

(4) NONATTAINMENT DESIGNATIONS FOR OZONE, CARBON MONOXIDE AND PARTICULATE MATTER (PM-10).—

(A) OZONE AND CARBON MONOXIDE.—(i) Within 120 days after the date of the enactment of the Clean Air Act Amendments of 1990, each Governor of each State shall submit to the Administrator a list that designates, affirms or reaffirms the designation of, or redesignates (as the case may be), all areas (or portions thereof) of the Governor's State as attainment, nonattainment, or unclassifiable with respect to the national ambient air quality standard for ozone and carbon monoxide.

(ii) No later than 120 days after the date the Governor is required to submit the list of areas (or portions thereof) required under clause (i) of this subparagraph, the Administrator shall promulgate such designations, making such modifications as the Administrator may deem necessary, in the same manner, and under the same procedure, as is applicable under clause (ii) of paragraph (1)(B), except that the phrase "60 days" shall be substituted for the phrase "120 days" in that clause. If the Governor does not submit, in accordance with clause (i) of this subparagraph, a designation for an area (or portion thereof), the Administrator shall promulgate the designation that the Administrator deems appropriate.

(iii) No nonattainment area may be redesignated as an attainment area under this subparagraph.

(iv) Notwithstanding paragraph (1)(C)(ii) of this subsection, if an ozone or carbon monoxide nonattainment area located within a metropolitan statistical area or consolidated metropolitan statistical area (as established by the Bureau of the Census) is classified under part D of this title as a Serious, Severe, or Extreme Area, the boundaries of such area are hereby revised (on the date 45 days after such classification) by operation of law to include the entire metropolitan statistical area or consolidated metropolitan statistical area, as the case may be, unless within such 45-day period the Governor (in consultation with State and local air pollution control agencies) notifies the Administrator that additional time is necessary to evaluate the application of clause (v). Whenever a Governor has submitted such a notice to the Administrator, such boundary revision shall occur on the later of the date 8 months after such classification or 14 months after the date of the enactment of the Clean Air Act Amendments of 1990 unless the Governor makes the finding referred to in clause (v), and the Administrator concurs in such finding, within such period. Except as otherwise provided in this paragraph, a boundary revision under this clause or

clause (v) shall apply for purposes of any State implementation plan revision required to be submitted after the date of the enactment of the Clean Air Act Amendments of 1990.

(v) Whenever the Governor of a State has submitted a notice under clause (iv), the Governor, in consultation with State and local air pollution control agencies, shall undertake a study to evaluate whether the entire metropolitan statistical area or consolidated metropolitan statistical area should be included within the nonattainment area. Whenever a Governor finds and demonstrates to the satisfaction of the Administrator, and the Administrator concurs in such finding, that with respect to a portion of a metropolitan statistical area or consolidated metropolitan statistical area, sources in the portion do not contribute significantly to violation of the national ambient air quality standard, the Administrator shall approve the Governor's request to exclude such portion from the nonattainment area. In making such finding, the Governor and the Administrator shall consider factors such as population density, traffic congestion, commercial development, industrial development, meteorological conditions, and pollution transport.

(B) PM-10 DESIGNATIONS.—By operation of law, until redesignation by the Administrator pursuant to paragraph (3)—

(i) each area identified in 52 Federal Register 29383 (Aug. 7, 1987) as a Group I area (except to the extent that such identification was modified by the Administrator before the date of the enactment of the Clean Air Act Amendments of 1990) is designated nonattainment for PM-10;

(ii) any area containing a site for which air quality monitoring data show a violation of the national ambient air quality standard for PM-10 before January 1, 1989 (as determined under part 50, appendix K of title 40 of the Code of Federal Regulations) is hereby designated nonattainment for PM-10; and

(iii) each area not described in clause (i) or (ii) is hereby designated unclassifiable for PM-10.

Any designation for particulate matter (measured in terms of total suspended particulates) that the Administrator promulgated pursuant to this subsection (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) shall remain in effect for purposes of implementing the maximum allowable increases in concentrations of particulate matter (measured in terms of total suspended particulates) pursuant to section 163(b), until the Administrator determines that such designation is no longer necessary for that purpose.

(5) DESIGNATIONS FOR LEAD.—The Administrator may, in the Administrator's discretion at any time the Administrator deems appropriate, require a State to designate areas (or portions thereof) with respect to the national ambient air quality standard for lead in effect as of the date of the enactment of the Clean Air Act Amendments of 1990, in accordance with the procedures under subparagraphs (A) and (B) of paragraph (1), except that in applying subparagraph (B)(i) of paragraph (1) the phrase "2 years from the date of promulgation of the new or revised national ambient air quality standard" shall be replaced by the phrase "1 year from the date the Administrator notifies the State of the requirement to designate areas with respect to the standard for lead."

(e)(1) Except as otherwise provided in paragraph (2), the Governor of each State is authorized, with the approval of the Administrator, to redesignate from time to time the air quality control regions within such State for purposes of efficient and effective air quality management. Upon such redesignation, the list under subsection (d) shall be modified accordingly.

(2) In the case of an air quality control region in a State, or part of such region, which the Administrator finds may significantly affect air pollution concentrations in another State, the Governor of the State in which such region, or part of a region, is located may redesignate from time to time the boundaries of so much of such air quality control region as is located within such State only with the approval of the Administrator and with the consent of all Governors of all States which the Administrator determines may be significantly affected.

(3) No compliance date extension granted under section 113(d)(5) (relating to coal conversion) shall cease to be effective by reason of the regional limitation provided in section 113(d)(5) if the violation of such limitation is due solely to a redesignation of a region under this subsection.

[¶ 2108]

Sec. 108. AIR QUALITY CRITERIA AND CONTROL TECHNIQUES

(a)(1) For the purpose of establishing national primary and secondary ambient air quality standards, the Administrator shall within 30 days after the date of enactment of the Clean Air Amendments of 1970 publish, and shall from time to time thereafter revise, a list which includes each air pollutant—

(A) emissions of which, in his judgment, cause or contribute to air pollution which may reasonably be anticipated to endanger public health or welfare;

(B) the presence of which in the ambient air results from numerous or diverse mobile or stationary sources; and

(C) for which air quality criteria had not been issued before the date of enactment of the Clean Air Amendments of 1970, but for which he plans to issue air quality criteria under this section.

(2) The Administrator shall issue air quality criteria for an air pollutant within 12 months after he has included such pollutant in a list under paragraph (1). Air quality criteria for an air pollutant shall accurately reflect the latest scientific knowledge useful in indicating the kind and extent of all identifiable effects on public health or welfare which may be expected from the presence of such pollutant in the ambient air, in varying quantities. The criteria for an air pollutant, to the extent practicable, shall include information on—

(A) those variable factors (including atmospheric conditions) which of themselves or in combination with other factors may alter the effects on public health or welfare of such air pollutant;

(B) the types of air pollutants which, when present in the atmosphere, may interact with such pollutant to produce an adverse effect on public health or welfare; and

(C) any known or anticipated adverse effects on welfare.

(b)(1) Simultaneously with the issuance of criteria under subsection (a), the Administrator shall, after consultation with appropriate advisory committees and Federal departments and agencies, issue to the States and appropriate air pollution control agencies information on air pollution control techniques, which information shall include data relating to the cost of installation and operation, energy requirements, emission reduction benefits, and environmental impact of the emission control technology. Such information shall include such data as are available on available technology and alternative methods of prevention and control of air pollution. Such information shall also include data on alternative fuels, processes, and operating methods which will result in elimination or significant reduction of emissions.

(2) In order to assist in the development of information on pollution control techniques, the Administrator may establish a standing consulting committee for each air pollutant included in a list published pursuant to subsection (a)(1), which shall be comprised of technically qualified individuals representative of State and local governments, industry, and the academic community. Each such committee shall submit as appropriate, to the Administrator information related to that required by paragraph (1).

(c) The Administrator shall from time to time review, and, as appropriate, modify, and reissue any criteria or information on control techniques issued pursuant to this section. Not later than six months after the date of the enactment of the Clean Air Act Amendments of 1977, the Administrator shall revise and reissue criteria relating to concentrations of NO_2 over such period (not more than three hours) as he deems appropriate. Such criteria shall include a discussion of nitric and nitrous acids, nitrites, nitrates, nitrosamines, and other carcinogenic and potentially carcinogenic derivatives of oxides of nitrogen.

(d) The issuance of air quality criteria and information on air pollution control techniques shall be announced in the Federal Register and copies shall be made available to the general public.

(e) The Administrator shall, after consultation with the Secretary of Transportation, and after providing public notice and opportunity for comment, and with State and local officials, within nine months after enactment of the Clean Air Act Amendments of 1989 and periodically thereafter as necessary to maintain a continuous transportation-air quality planning process, update the June 1978 Transportation-Air Quality Planning Guidelines and publish guidance on the development and implementation of transportation and other measures necessary to demonstrate and maintain attainment of national ambient air quality standards. Such guidelines shall include information on—

(1) methods to identify and evaluate alternative planning and control activities;

(2) methods of reviewing plans on a regular basis as conditions change or new information is presented;

(3) identification of funds and other resources necessary to implement the plan, including interagency agreements on providing such funds and resources;

(4) methods to assure participation by the public in all phases of the planning process; and

(5) such other methods as the Administrator determines necessary to carry out a continuous planning process.

(f)(1) The Administrator shall publish and make available to appropriate Federal, State, and local environmental and transportation agencies, not later than one year after enactment of the Clean Air Act Amendments of 1990, and from time to time thereafter—

(A) information prepared, as appropriate, in consultation with the Secretary of Transportation, and after providing public notice and opportunity for comment, regarding the formulation and emission reduction potential of transportation control measures related to criteria pollutants and their precursors, including, but not limited to—

(i) programs for improved public transit;

(ii) restriction of certain roads or lanes to, or construction of such roads or lanes for use by, passenger buses or high occupancy vehicles;

(iii) employer-based transportation management plans, including incentives;

(iv) trip-reduction ordinances;

(v) traffic flow improvement programs that achieve emission reductions;

(vi) fringe and transportation corridor parking facilities serving multiple occupancy vehicle programs or transit service;

(vii) programs to limit or restrict vehicle use in downtown areas or other areas of emission concentration particularly during periods of peak use;

(viii) programs for the provision of all forms of high-occupancy, shared-ride services;

(ix) programs to limit portions of road surfaces or certain sections of the metropolitan area to the use of non-motorized vehicles or pedestrian use, both as to time and place;

(x) programs for secure bicycle storage facilities and other facilities, including bicycle lanes, for the convenience and protection of bicyclists, in both public and private areas;

(xi) programs to control extended idling of vehicles;

(xii) programs to reduce motor vehicle emissions, consistent with title II, which are caused by extreme cold start conditions;

(xiii) employer-sponsored programs to permit flexible work schedules;

(xiv) programs and ordinances to facilitate non-automobile travel, provision and utilization of mass transit, and to generally reduce the need for single-occupant vehicle travel, as part of transportation planning and development efforts of a locality, including programs and ordinances applicable to new shopping centers, special events, and other centers of vehicle activity;

(xv) programs for new construction and major reconstructions of paths, tracks or areas solely for the use by pedestrian or other non-motorized means of transportation when economically feasible and in the public interest. For purposes of this clause, the Administrator shall also consult with the Secretary of the Interior; and

(xvi) program to encourage the voluntary removal from use and the marketplace of pre-1980 model year light duty vehicles and pre-1980 model light duty trucks.

(B) information on additional methods or strategies that will contribute to the reduction of mobile source related pollutants during periods in which any primary ambient air quality standard will be exceeded and during episodes for which an air pollution alert, warning, or emergency has been declared;

(C) information on other measures which may be employed to reduce the impact on public health or protect the health of sensitive or susceptible individuals or groups; and

(D) information on the extent to which any process, procedure, or method to reduce or control such air pollutant may cause an increase in the emissions or formation of any other pollutant.

(2) In publishing such information the Administrator shall also include an assessment of—

(A) the relative effectiveness of such processes, procedures, and methods;

(B) the potential effect of such processes, procedures, and methods on transportation systems and the provision of transportation services; and

(C) the environmental, energy, and economic impact of such processes, procedures, and methods.

(3) The Secretary of Transportation and the Administrator shall submit to Congress by January 1, 1993, and every 3 years thereafter a report that—

(A) reviews and analyzes existing State and local air quality-related transportation programs, including specifically any analyses of whether adequate funding is available to complete transportation projects identified in State implementation plans in the time required by applicable State implementation plans and any Federal efforts to promote those programs;

(B) evaluates the extent to which the Department of Transportation's existing air quality-related transportation programs and such Department's proposed budget will achieve the goals of and compliance with this Act; and

(C) recommends what, if any, changes to such existing programs and proposed budget as well as any statutory authority relating to air quality-related transportation programs that would improve the achievement of the goals of and compliance with the Clean Air Act.

(4) In each report to Congress after the first report required under paragraph (3), the Secretary of Transportation shall include a description of the actions taken to implement the changes recommended in the preceding report.

(g) **ASSESSMENT OF RISKS TO ECOSYSTEMS.**—The Administrator may assess the risks to ecosystems from exposure to criteria air pollutants (as identified by the Administrator in the Administrator's sole discretion).

(h) **RACT/BACT/LAER CLEARINGHOUSE.**—The Administrator shall make information regarding emission control technology available to the States and to the general public through a central database. Such information shall include all control technology information received pursuant to State plan provisions requiring permits for sources, including operating permits for existing sources.

[¶ 2109]

Sec. 109. NATIONAL AMBIENT AIR QUALITY STANDARDS

(a)(1) The Administrator—

(A) within 30 days after the date of enactment of the Clean Air Amendments of 1970, shall publish proposed regulations prescribing a national primary ambient air quality standard and a national secondary ambient air quality standard for each air pollutant for which air quality criteria have been issued prior to such date of enactment; and

(B) after a reasonable time for interested persons to submit written comments thereon (but no later than 90 days after the initial publication of such proposed standards) shall by regulation promulgate such proposed national primary and secondary ambient air quality standards with such modifications as he deems appropriate.

(2) With respect to any air pollutant for which air quality criteria are issued after the date of enactment of the Clean Air Amendments of 1970, the Administrator shall publish, simultaneously with the issuance of such criteria and information, proposed national primary and secondary ambient air quality standards for any such pollutant. The procedure provided for in paragraph (1)(B) of this subsection shall apply to the promulgation of such standards.

(b)(1) National primary ambient air quality standards, prescribed under subsection (a) shall be ambient air quality standards the attainment and maintenance of which in the judgment of the Administrator, based on such criteria and allowing an adequate margin of safety, are requisite to protect the public health. Such primary standards may be revised in the same manner as promulgated.

(2) Any national secondary ambient air quality standard prescribed under subsection (a) shall specify a level of air quality the attainment and maintenance of which in the judgment of the Administrator, based on such criteria, is requisite to protect the public welfare from any known or anticipated adverse effects associated with the presence of such air pollutant in the ambient air. Such secondary standards may be revised in the same manner as promulgated.

(c) The Administrator shall, not later than one year after the date of the enactment of the Clean Air Act Amendments of 1977, promulgate a national primary ambient air quality standard for NO₂ concentrations over a period of not more than 3 hours unless, based on the criteria issued under section 108(c), he finds that there is no significant evidence that such a standard for such a period is requisite to protect public health.

(d)(1) Not later than December 31, 1980, and at five-year intervals thereafter, the Administrator shall complete a thorough review of the criteria published under section 108 and the national ambient air quality standards promulgated under this section and shall make such revisions in such criteria and standards and promulgate such new standards as may be appropriate in accordance with section 108 and subsection (b) of this section. The Administrator may review and revise criteria or promulgate new standards earlier or more frequently than required under this paragraph.

(2)(A) The Administrator shall appoint an independent scientific review committee composed of seven members including at least one member of the National Academy of Sciences, one physician, and one person representing State air pollution control agencies.

(B) Not later than January 1, 1980, and at five-year intervals thereafter, the committee referred to in subparagraph (A) shall complete a review of the criteria published under section 108 and the national primary and secondary ambient air quality standards promulgated under this section and shall recommend to the Administrator any new national ambient air quality standards and revisions of existing criteria and standards as may be appropriate under section 108 and subsection (b) of this section.

(C) Such committee shall also (i) advise the Administrator of areas in which additional knowledge is required to appraise the adequacy and basis of existing, new, or revised national ambient air quality standards, (ii) describe the research efforts necessary to provide the required information, (iii) advise the Administrator on the relative contribution to air pollution concentrations of natural as well as anthropogenic activity, and (iv) advise the Administrator of any adverse public health, welfare, social, economic, or energy effects which may result from various strategies for attainment and maintenance of such national ambient air quality standards.

[¶ 2110]

Sec. 110. IMPLEMENTATION PLANS

(a)(1) Each State shall, after reasonable notice and public hearings, adopt and submit to the Administrator, within 3 years (or such shorter period as the Administrator may prescribe) after the promulgation of a national primary ambient air quality standard (or any revision thereof) under section 109 for any air pollutant, a plan which provides for implementation, maintenance, and enforcement of such primary standard in each air quality control region (or portion thereof) within such State. In addition, such State shall adopt and submit to the Administrator (either as a part of a plan submitted under the preceding sentence or separately) within 3 years (or such shorter period as the Administrator may prescribe) after the promulgation of a national ambient air quality secondary standard (or revision thereof), a plan which provides for implementation, maintenance, and enforcement of such secondary standard in each air quality control region (or portion thereof) within such State. Unless a separate public hearing is provided, each State shall consider its plan implementing such secondary standard at the hearing required by the first sentence of this paragraph.

(2) Each implementation plan submitted by a State under this Act shall be adopted by the State after reasonable notice and public hearing. Each such plan shall—

(A) include enforceable emission limitations and other control measures, means, or techniques (including economic incentives such

as fees, marketable permits, and auctions of emissions rights), as well as schedules and timetables for compliance, as may be necessary or appropriate to meet the applicable requirements of this Act;

(B) provide for establishment and operation of appropriate devices, methods, systems, and procedures necessary to—

(i) monitor, compile, and analyze data on ambient air quality, and

(ii) upon request, make such data available to the Administrator;

(C) include a program to provide for the enforcement of the measures described in subparagraph (A), and regulation of the modification and construction of any stationary source within the areas covered by the plan as necessary to assure that national ambient air quality standards are achieved, including a permit program as required in parts C and D;

(D) contain adequate provisions—

(i) prohibiting, consistent with the provisions of this title, any source or other type of emissions activity within the State from emitting any air pollutant in amounts which will—

(I) contribute significantly to nonattainment in, or interfere with maintenance by, any other State with respect to any such national primary or secondary ambient air quality standard, or

(II) interfere with measures required to be included in the applicable implementation plan for any other State under part C to prevent significant deterioration of air quality or to protect visibility,

(ii) insuring compliance with the applicable requirements of sections 126 and 115 (relating to interstate and international pollution abatement);

(E) provide (i) necessary assurances that the State (or, except where the Administrator deems inappropriate, the general purpose local government or governments, or a regional agency designated by the State or general purpose local governments for such purpose) will have adequate personnel, funding, and authority under State (and, as appropriate, local) law to carry out such implementation plan (and is not prohibited by any provision of Federal or State law from carrying out such implementation plan or portion thereof), (ii) requirements that the State comply with the requirements respecting State boards under section 128, and (iii) necessary assurances that, where the State has relied on a local or regional government, agency, or instrumentality for the implementation of any plan provision, the State has responsibility for ensuring adequate implementation of such plan provision;

(F) require, as may be prescribed by the Administrator—

(i) the installation, maintenance, and replacement of equipment, and the implementation of other necessary steps, by owners or operators of stationary sources to monitor emissions from such sources,

(ii) periodic reports on the nature and amounts of emissions and emissions-related data from such sources, and

(iii) correlation of such reports by the State agency with any emission limitations or standards established pursuant to this Act, which reports shall be available at reasonable times for public inspection;

(G) provide for authority comparable to that in section 303 and adequate contingency plans to implement such authority;

(H) provide for revision of such plan—

(i) from time to time as may be necessary to take account of revisions of such national primary or secondary ambient air quality standard or the availability of improved or more expeditious methods of attaining such standard, and

(ii) except as provided in paragraph (3)(C), whenever the Administrator finds on the basis of information available to the Administrator that the plan is substantially inadequate to attain the national ambient air quality standard which it implements or to otherwise comply with any additional requirements established under this Act;

(I) in the case of a plan or plan revision for an area designated as a nonattainment area, meet the applicable requirements of part D (relating to nonattainment areas);

(J) meet the applicable requirements of section 121 (relating to consultation), section 127 (relating to public notification), and part C (relating to prevention of significant deterioration of air quality and visibility protection);

(K) provide for—

(i) the performance of such air quality modeling as the Administrator may prescribe for the purpose of predicting the effect on ambient air quality of any emissions of any air pollutant for which the Administrator has established a national ambient air quality standard, and

(ii) the submission, upon request, of data related to such air quality modeling to the Administrator;

(L) require the owner or operator of each major stationary source to pay to the permitting authority, as a condition of any permit required under this Act, a fee sufficient to cover—

(i) the reasonable costs of reviewing and acting upon any application for such a permit, and

(ii) if the owner or operator receives a permit for such source, the reasonable costs of implementing and enforcing the terms and conditions of any such permit (not including any court costs or other costs associated with any enforcement action),

until such fee requirement is superseded with respect to such sources by the Administrator's approval of a fee program under title V; and

(M) provide for consultation and participation by local political subdivisions affected by the plan.

(3) [CCH Note: (A) deleted by P.L. 101-549.]

(B) As soon as practicable, the Administrator shall, consistent with the purposes of this Act and the Energy Supply and Environmental Coordination Act of 1974, review each State's applicable implementation plans and report to the State on whether such plans can be revised in relation to fuel burning stationary sources (or persons supplying fuel to such sources) without interfering with the attainment and maintenance of any national ambient air quality standard within the period permitted in this section. If the Administrator determines that any such plan can be revised, he shall notify the State that a plan revision may be submitted by the State. Any plan revision which is submitted by the State shall, after public notice and opportunity for public hearing, be approved by the Administrator if the revision relates only to fuel burning stationary sources (or persons supplying fuel to such sources), and the plan as revised complies with paragraph (2) of this subsection. The Administrator shall approve or disapprove any revision no later than three months after its submission.

(C) Neither the State, in the case of a plan (or portion thereof) approved under this subsection, nor the Administrator, in the case of a plan (or portion thereof) promulgated under subsection (c), shall be required to revise an applicable implementation plan because one or more exemptions under section 118 (relating to Federal facilities), enforcement orders under section 113(d), suspensions under section 110(f) or (g) (relating to temporary energy or economic authority), orders under section 119 (relating to primary nonferrous smelters), or extensions of compliance in decrees entered under section 113(e) (relating to iron- and steel-producing operations) have been granted, if such plan would have met the requirements of this section if no such exemptions, orders, or extensions had been granted."

[CCH Note: (4) deleted by P.L. 101-549.]

(5)(A)(i) Any State may include in a State implementation plan, but the Administrator may not require as a condition of approval of such plan under this section, any indirect source review program. The Administra-

tor may approve and enforce, as part of an applicable implementation plan, an indirect source review program which the State chooses to adopt and submit as part of its plan.

(ii) Except as provided in subparagraph (B), no plan promulgated by the Administrator shall include any indirect source review program for any air quality control region, or portion thereof.

(iii) Any State may revise an applicable implementation plan approved under section 110(a) to suspend or revoke any such program included in such plan, provided that such plan meets the requirements of this section.

(B) The Administrator shall have the authority to promulgate, implement and enforce regulations under section 110(c) respecting indirect source review programs which apply only to federally assisted highways, airports, and other major federally assisted indirect sources and federally owned or operated indirect sources.

(C) For purposes of this paragraph, the term "indirect source" means a facility, building, structure, installation, real property, road, or highway which attracts, or may attract, mobile sources of pollution. Such term includes parking lots, parking garages, and other facilities subject to any measure for management of parking supply (within the meaning of section 110(c)(2)(D)(ii)), including regulation of existing off-street parking but such term does not include new or existing on-street parking. Direct emissions sources or facilities at, within, or associated with, any indirect source shall not be deemed indirect sources for the purpose of this paragraph.

(D) For purposes of this paragraph the term "indirect source review program" means the facility-by-facility review of indirect sources of air pollution, including such measures as are necessary to assure, or assist in assuring, that a new or modified indirect source will not attract mobile sources of air pollution, the emissions from which would cause or contribute to air pollution concentrations—

(i) exceeding any national primary ambient air quality standard for a mobile source-related air pollutant after the primary standard attainment date, or

(ii) preventing maintenance of any such standard after such date.

(E) For purposes of this paragraph and paragraph (2)(B), the term "transportation control measure" does not include any measure which is an "indirect source review program".

(6) No State plan shall be treated as meeting the requirements of this section unless such plan provides that in the case of any source which uses a supplemental, or intermittent control system for purposes of meeting the requirements of an order under section 113(d) or section 119 (relating to primary nonferrous smelter orders), the owner or operator of

such source may not temporarily reduce the pay of any employee by reason of the use of such supplemental or intermittent or other dispersion dependent control system.

(b) The Administrator may, wherever he determines necessary, extend the period for submission of any plan or portion thereof which implements a national secondary ambient air quality standard for a period not to exceed 18 months from the date otherwise required for submission of such plan.

(c)(1) The Administrator shall promulgate a Federal implementation plan at any time within 2 years after the Administrator—

(A) finds that a State has failed to make a required submission or finds that the plan or plan revision submitted by the State does not satisfy the minimum criteria established under section 110(k)(1)(A), or

(B) disapproves a State implementation plan submission in whole or in part, unless the State corrects the deficiency, and the Administrator approves the plan or plan revision, before the Administrator promulgates such Federal implementation plan.

[CCH Note: (2)(A) deleted by P.L. 101-549.]

(B) No parking surcharge regulation may be required by the Administrator under paragraph (1) of this subsection as a part of an applicable implementation plan. All parking surcharge regulations previously required by the Administrator shall be void upon the date of enactment of this subparagraph. This subparagraph shall not prevent the Administrator from approving parking surcharges if they are adopted and submitted by a State as part of an applicable implementation plan. The Administrator may not condition approval of any implementation plan submitted by a State on such plans, including a parking surcharge regulation.

[CCH Note: (C) deleted by P.L. 101-549.]

(D) For purposes of this paragraph—

(i) The term “parking surcharge regulation” means a regulation imposing or requiring the imposition of any tax, surcharge, fee, or other charge on parking spaces, or any other area used for the temporary storage of motor vehicles.

(ii) The term “management of parking supply” shall include any requirement providing that any new facility containing a given number of parking spaces shall receive a permit or other prior approval, issuance of which is to be conditioned on air quality considerations.

(iii) The term “preferential bus/carpool lane” shall include any requirement for the setting aside of one or more lanes of a street or highway on a permanent or temporary basis for the exclusive use of buses or carpools, or both.

(E) No standard, plan, or requirement, relating to management of parking supply or preferential bus/carpool lanes shall be promulgated after the date of enactment of this paragraph by the Administrator pursuant to this section, unless such promulgation has been subjected to at least one public hearing which has been held in the area affected and for which reasonable notice has been given in such area. If substantial changes are made following public hearings, one or more additional hearings shall be held in such area after such notice.

(3) Upon application of the chief executive officer of any general purpose unit of local government, if the Administrator determines that such unit has adequate authority under State or local law, the Administrator may delegate to such unit the authority to implement and enforce within the jurisdiction of such unit any part of a plan promulgated under this subsection. Nothing in this paragraph shall prevent the Administrator from implementing or enforcing any applicable provision of a plan promulgated under this subsection.

[CCH Note: (4) deleted by P.L. 101-549].

(5)(A) Any measure in an applicable implementation plan which requires a toll or other charge for the use of a bridge located entirely within one city shall be eliminated from such plan by the Administrator upon application by the Governor of the State, which application shall include a certification by the Governor that he will revise such plan in accordance with subparagraph (B).

(B) In the case of any applicable implementation plan with respect to which a measure has been eliminated under subparagraph (A), such plan shall, not later than one year after the date of the enactment of this subparagraph, be revised to include comprehensive measures to:

(i) establish, expand, or improve public transportation measures to meet basic transportation needs, as expeditiously as is practicable; and

(ii) implement transportation control measures necessary to attain and maintain national ambient air quality standards,

and such revised plan shall, for the purpose of implementing such comprehensive public transportation measures, include requirements to use (insofar as is necessary) Federal grants, State or local funds, or any combination of such grants and funds as may be consistent with the terms of the legislation providing such grants and funds. Such measures shall, as a substitute for the tolls or charges eliminated under subparagraph (A), provide for emissions reductions equivalent to the reductions which may reasonably be expected to be achieved through the use of the tolls or charges eliminated.

(C) Any revision of an implementation plan for purposes of meeting the requirements of subparagraph (B) shall be submitted in coordination with any plan revision required under part D.

[CCH Note: (d) and (e) deleted by P.L. 101-549.]

(f)(1) Upon application by the owner or operator of a fuel burning stationary source, and after notice and opportunity for public hearing, the Governor of the State in which such source is located may petition the President to determine that a national or regional energy emergency exists of such severity that—

(A) a temporary suspension of any part of the applicable implementation plan may be necessary, and

(B) other means of responding to the energy emergency may be inadequate.

Such determination shall not be delegable by the President to any other person. If the President determines that a national or regional energy emergency of such severity exists, a temporary emergency suspension of any part of an applicable implementation plan “or of any requirement under section 411 (concerning excess emissions penalties or offsets) of title IV of the Act” adopted by the State may be issued by the Governor of any State covered by the President’s determination under the condition specified in paragraph (2) and may take effect immediately.

(2) A temporary emergency suspension under this subsection shall be issued to a source only if the Governor of such State finds that—

(A) there exists in the vicinity of such source a temporary energy emergency involving high levels of unemployment or loss of necessary energy supplies for residential dwellings; and

(B) such unemployment or loss can be totally or partially alleviated by such emergency suspension.

Not more than one such suspension may be issued for any source on the basis of the same set of circumstances or on the basis of the same emergency.

(3) A temporary emergency suspension issued by a Governor under this subsection shall remain in effect for a maximum of four months or such lesser period as may be specified in a disapproval order of the Administrator, if any. The Administrator may disapprove such suspension if he determines that it does not meet the requirements of paragraph (2).

(4) This subsection shall not apply in the case of a plan provision or requirement promulgated by the Administrator under subsection (c) of this section, but in any such case the President may grant a temporary emergency suspension for a four month period of any such provision or requirement if he makes the determinations and findings specified in paragraphs (1) and (2).

(5) The Governor may include in any temporary emergency suspension issued under this subsection a provision delaying for a period identical to the period of such suspension any compliance schedule (or increment of progress) to which such source is subject under section 119, as in effect before the date of the enactment of this paragraph or section 113(d) of this Act, upon a finding that such source is unable to comply with such schedule (or increment) solely because of the conditions on the basis of which a suspension was issued under this subsection.

(g)(1) In the case of any State which has adopted and submitted to the Administrator a proposed plan revision which the State determines—

(A) meets the requirements of this section, and

(B) is necessary (i) to prevent the closing for one year or more of any source of air pollution, and (ii) to prevent substantial increases in unemployment which would result from such closing, and

which the Administrator has not approved or disapproved under this section within 12 months of submission of the proposed plan revision, the Governor may issue a temporary emergency suspension of the part of the applicable implementation plan for such State which is proposed to be revised with respect to such source. The determination under subparagraph (B) may not be made with respect to a source which would close without regard to whether or not the proposed plan revision is approved.

(2) A temporary emergency suspension issued by a Governor under this subsection shall remain in effect for a maximum of four months or such lesser period as may be specified in a disapproval order of the Administrator. The Administrator may disapprove such suspension if he determines that it does not meet the requirements of this subsection.

(3) The Governor may include in any temporary emergency suspension issued under this subsection a provision delaying for a period identical to the period of such suspension any compliance schedule (or increment of progress) to which such source is subject under section 119 as in effect before the date of the enactment of this paragraph, or under section 113(d) upon a finding that such source is unable to comply with such schedule (or increment) solely because of the conditions on the basis of which a suspension was issued under this subsection.

(h)(1) Not later than five years after the date of the enactment of the Clean Air Act Amendments of 1990 and every 3 years thereafter, the Administrator shall assemble and publish a comprehensive document for each State setting forth all requirements of the applicable implementation plan for such State and shall publish notice in the Federal Register of the availability of such documents.

(2) The Administrator may promulgate such regulations as may be reasonably necessary to carry out the purpose of this subsection.

(i) Except for a primary nonferrous smelter order under section 119, a suspension under section 110 (f) or (g) (relating to emergency suspensions), an

exemption under section 118 (relating to certain Federal facilities), an order under section 113(d) (relating to compliance orders), a plan promulgation under section 110(c), or a plan revision under section 110(a)(3), no order, suspension, plan revision, or other action modifying any requirement of an applicable implementation plan may be taken with respect to any stationary source by the State or by the Administrator.

(j) As a condition for issuance of any permit required under this title, the owner or operator of each new or modified stationary source which is required to obtain such a permit must show to the satisfaction of the permitting authority that the technological system of continuous emission reduction which is to be used will enable such source to comply with the standards of performance which are to apply to such source and that the construction or modification and operation of such source will be in compliance with all other requirements of this Act.

(k) ENVIRONMENTAL PROTECTION AGENCY ACTION ON PLAN SUBMISSIONS.—

(1) COMPLETENESS OF PLAN SUBMISSIONS.—

(A) COMPLETENESS CRITERIA.—Within 9 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate minimum criteria that any plan submission must meet before the Administrator is required to act on such submission under this subsection. The criteria shall be limited to the information necessary to enable the Administrator to determine whether the plan submission complies with the provisions of this Act.

(B) COMPLETENESS FINDING.—Within 60 days of the Administrator's receipt of a plan or plan revision, but no later than 6 months after the date, if any, by which a State is required to submit the plan or revision, the Administrator shall determine whether the minimum criteria established pursuant to subparagraph (A) have been met. Any plan or plan revision that a State submits to the Administrator, and that has not been determined by the Administrator (by the date 6 months after receipt of the submission) to have failed to meet the minimum criteria established pursuant to subparagraph (A), shall on that date be deemed by operation of law to meet such minimum criteria.

(C) EFFECT OF FINDING OF INCOMPLETENESS.—Where the Administrator determines that a plan submission (or part thereof) does not meet the minimum criteria established pursuant to subparagraph (A), the State shall be treated as not having made the submission (or, in the Administrator's discretion, part thereof).

(2) DEADLINE FOR ACTION.—Within 12 months of a determination by the Administrator (or a determination deemed by operation of law) under paragraph (1) that a State has submitted a plan or plan revision (or, in the Administrator's discretion, part thereof) that meets the minimum criteria established pursuant to paragraph (1), if applicable (or, if those criteria are not applicable, within 12 months of submission of the plan or

revision), the Administrator shall act on the submission in accordance with paragraph (3).

(3) **FULL AND PARTIAL APPROVAL AND DISAPPROVAL.**—In the case of any submittal on which the Administrator is required to act under paragraph (2), the Administrator shall approve such submittal as a whole if it meets all of the applicable requirements of this Act. If a portion of the plan revision meets all the applicable requirements of this Act, the Administrator may approve the plan revision in part and disapprove the plan revision in part. The plan revision shall not be treated as meeting the requirements of this Act until the Administrator approves the entire plan revision as complying with the applicable requirements of this Act.

(4) **CONDITIONAL APPROVAL.**—The Administrator may approve a plan revision based on a commitment of the State to adopt specific enforceable measures by a date certain, but not later than 1 year after the date of approval of the plan revision. Any such conditional approval shall be treated as a disapproval if the State fails to comply with such commitment.

(5) **CALLS FOR PLAN REVISIONS.**—Whenever the Administrator finds that the applicable implementation plan for any area is substantially inadequate to attain or maintain the relevant national ambient air quality standard, to mitigate adequately the interstate pollutant transport described in section 176A or section 184, or to otherwise comply with any requirement of this Act, the Administrator shall require the State to revise the plan as necessary to correct such inadequacies. The Administrator shall notify the State of the inadequacies, and may establish reasonable deadlines (not to exceed 18 months after the date of such notice) for the submission of such plan revisions. Such findings and notice shall be public. Any finding under this paragraph shall, to the extent the Administrator deems appropriate, subject the State to the requirements of this Act to which the State was subject when it developed and submitted the plan for which such finding was made, except that the Administrator may adjust any dates applicable under such requirements as appropriate (except that the Administrator may not adjust any attainment date prescribed under part D, unless such date has elapsed).

(6) **CORRECTIONS.**—Whenever the Administrator determines that the Administrator's action approving, disapproving, or promulgating any plan or plan revision (or part thereof), area designation, redesignation, classification, or reclassification was in error, the Administrator may in the same manner as the approval, disapproval, or promulgation revise such action as appropriate without requiring any further submission from the State. Such determination and the basis thereof shall be provided to the State and public.

(1) **PLAN REVISIONS.**—Each revision to an implementation plan submitted by a State under this Act shall be adopted by such State after reasonable notice and public hearing. The Administrator shall not approve a revision of a plan if the revision would interfere with any applicable requirement concern-

ing attainment and reasonable further progress (as defined in section 171), or any other applicable requirement of this Act.

(m) **SANCTIONS.**—The Administrator may apply any of the sanctions listed in section 179(b) at any time (or at any time after) the Administrator makes a finding, disapproval, or determination under paragraphs (1) through (4), respectively, of section 179(a) in relation to any plan or plan item (as that term is defined by the Administrator) required under this Act, with respect to any portion of the State the Administrator determines reasonable and appropriate, for the purpose of ensuring that the requirements of this Act relating to such plan or plan item are met. The Administrator shall, by rule, establish criteria for exercising his authority under the previous sentence with respect to any deficiency referred to in section 179(a) to ensure that, during the 24-month period following the finding, disapproval, or determination referred to in section 179(a), such sanctions are not applied on a statewide basis where one or more political subdivisions covered by the applicable implementation plan are principally responsible for such deficiency.

(n) **SAVINGS CLAUSES.**—

(1) **EXISTING PLAN PROVISIONS.**—Any provision of any applicable implementation plan that was approved or promulgated by the Administrator pursuant to this section as in effect before the date of the enactment of the Clean Air Act Amendments of 1990 shall remain in effect as part of such applicable implementation plan, except to the extent that a revision to such provision is approved or promulgated by the Administrator pursuant to this Act.

(2) **ATTAINMENT DATES.**—For any area not designated nonattainment, any plan or plan revision submitted or required to be submitted by a State—

(A) in response to the promulgation or revision of a national primary ambient air quality standard in effect on the date of the enactment of the Clean Air Act Amendments of 1990, or

(B) in response to a finding of substantial inadequacy under subsection (a)(2) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990),

shall provide for attainment of the national primary ambient air quality standards within 3 years of the date of the enactment of the Clean Air Act Amendments of 1990 or within 5 years of issuance of such finding of substantial inadequacy, whichever is later.

(3) **RETENTION OF CONSTRUCTION MORATORIUM IN CERTAIN AREAS.**—In the case of an area to which, immediately before the date of the enactment of the Clean Air Act Amendments of 1990, the prohibition on construction or modification of major stationary sources prescribed in subsection (a)(2)(I) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) applied by virtue of a finding of the Administrator that the State containing such area had not submitted an implementation plan meeting the requirements of

section 172(b)(6) (relating to establishment of a permit program) (as in effect immediately before the date of enactment of the Clean Air Act Amendments of 1990) or 172(a)(1) (to the extent such requirements relate to provision for attainment of the primary national ambient air quality standard for sulfur oxides by December 31, 1982) as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990, no major stationary source of the relevant air pollutant or pollutants shall be constructed or modified in such area until the Administrator finds that the plan for such area meets the applicable requirements of section 172(c)(5) (relating to permit programs) or subpart 5 of part D (relating to attainment of the primary national ambient air quality standard for sulfur dioxide), respectively.

(o) INDIAN TRIBES.—If an Indian tribe submits an implementation plan to the Administrator pursuant to section 301(d), the plan shall be reviewed in accordance with the provisions for review set forth in this section for State plans, except as otherwise provided by regulation promulgated pursuant to section 301(d)(2). When such plan becomes effective in accordance with the regulations promulgated under section 301(d), the plan shall become applicable to all areas (except as expressly provided otherwise in the plan) located within the exterior boundaries of the reservation, notwithstanding the issuance of any patent and including rights-of-way running through the reservation.

(p) REPORTS.—Any state shall submit, according to such schedule as the Administrator may prescribe, such reports as the Administrator may require relating to emission reductions, vehicle miles traveled, congestion levels, and any other information the Administrator may deem necessary to assess the development effectiveness, need for revision, or implementation of any plan or plan revision required under this Act.

[¶ 2111]

Sec. 111. STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES

(a) For purposes of this section:

(1) The term “standard of performance” means a standard for emissions of air pollutants which reflects the degree of emission limitation achievable through the application of the best system of emission reduction which (taking into account the cost of achieving such reduction and any nonair quality health and environmental impact and energy requirements) the Administrator determines has been adequately demonstrated.

(2) The term “new source” means any stationary source, the construction or modification of which is commenced after the publication of regulations (or, if earlier, proposed regulations) prescribing a standard of performance under this section which will be applicable to such source.

(3) The term “stationary source” means any building, structure, facility, or installation which emits or may emit any air pollutant. Nothing in Title II of this Act relating to nonroad engines shall be construed to apply to stationary internal combustion engines.

(4) The term “modification” means any physical change in, or change in the method of operation of, a stationary source which increases the amount of any air pollutant emitted by such source or which results in the emission of any air pollutant not previously emitted.

(5) The term “owner or operator” means any person who owns, leases, operates, controls, or supervises a stationary source.

(6) The term “existing source” means any stationary source other than a new source.

(7) The term “technological system of continuous emission reduction” means—

(A) a technological process for production or operation by any source which is inherently low-polluting or nonpolluting, or

(B) a technological system for continuous reduction of the pollution generated by a source before such pollution is emitted into the ambient air, including precombustion cleaning or treatment of fuels.

(8) A conversion to coal (A) by reason of an order under section 2(a) of the Energy Supply and Environmental Coordination Act of 1974 or any amendment thereto, or any subsequent enactment which supersedes such Act, or (B) which qualifies under section 113(d)(5)(A)(ii) of this Act, shall not be deemed to be a modification for purposes of paragraphs (2) and (4) of this subsection.

(b)(1)(A) The Administrator shall, within 90 days after the date of enactment of the Clean Air Amendments of 1970, publish (and from time to time thereafter shall revise) a list of categories of stationary sources. He shall include a category of sources in such list if in his judgement it causes, or contributes significantly to, air pollution which may reasonably be anticipated to endanger public health or welfare.

(B) Within one year after the inclusion of a category of stationary sources in a list under subparagraph (A), the Administrator shall publish proposed regulations, establishing Federal standards of performance for new sources within such category. The Administrator shall afford interested persons an opportunity for written comment on such proposed regulations. After considering such comments, he shall promulgate, within one year after such publication, such standards with such modifications as he deems appropriate. The Administrator shall, at least every eight years, review and, if appropriate, revise such standards following the procedure required by this subsection for promulgation of such standards. Notwithstanding the requirements of the previous sentence, the Administrator need not review any such standard if the Administrator determines that such review is not appropriate in light of readily available information on the efficacy of such standard. Standards of performance or revisions thereof shall become effective upon promulgation. When implementation and enforcement of any requirement

of this Act indicate that emission limitations and percent reductions beyond those required by the standards promulgated under this section are achieved in practice, the Administrator shall, when revising standards promulgated under this section, consider the emission limitations and percent reductions achieved in practice.

(2) The Administrator may distinguish among classes, types, and sizes within categories of new sources for the purpose of establishing such standards.

(3) The Administrator shall, from time to time, issue information on pollution control techniques for categories of new sources and air pollutants subject to the provisions of this section.

(4) The provisions of this section shall apply to any new source owned or operated by the United States.

(5) Except as otherwise authorized under subsection (h), nothing in this section shall be construed to require, or to authorize the Administrator to require, any new or modified source to install any particular technological system of continuous emission reduction to comply with any new source standard of performance.

(6) The revised standards of performance required by enactment of subsection (a)(1)(A)(i) and (ii) shall be promulgated not later than one year after enactment of this paragraph. Any new or modified fossil fuel fired stationary source which commences construction prior to the date of publication of the proposed revised standards shall not be required to comply with such revised standards.

(c)(1) Each State may develop and submit to the Administrator a procedure for implementing and enforcing standards of performance for new sources located in such State. If the Administrator finds the State procedure is adequate, he shall delegate to such State any authority he has under this Act to implement and enforce such standards.

(2) Nothing in this subsection shall prohibit the Administrator from enforcing any applicable standard of performance under this section.

(d)(1) The Administrator shall prescribe regulations which shall establish a procedure similar to that provided by section 110 under which each State shall submit to the Administrator a plan which (A) establishes standards of performance for any existing source for any air pollutant (i) for which air quality criteria have not been issued or which is not included on a list published under section 108(a) or [emitted from a source category which is regulated under section 112 {or} 112(b)] [CCH Note: Both versions as per P.L. 101-549.] but (ii) to which a standard of performance under this section would apply if such existing source were a new source, and (B) provides for the implementation and enforcement of such standards of performance. Regulations of the Administrator under this paragraph shall permit the State in applying a standard of performance to any particular source under a plan submitted under this paragraph to take into consideration, among other

factors, the remaining useful life of the existing source to which such standard applies.

(2) The Administrator shall have the same authority—

(A) to prescribe a plan for a State in cases where the State fails to submit a satisfactory plan as he would have under section 110(c) in the case of failure to submit an implementation plan, and

(B) to enforce the provisions of such plan in cases where the State fails to enforce them as he would have under sections 113 and 114 with respect to an implementation plan. In promulgating a standard of performance under a plan prescribed under this paragraph, the Administrator shall take into consideration, among other factors, remaining useful lives of the sources in the category of sources to which such standard applies.

(e) After the effective date of standards of performance promulgated under this section, it shall be unlawful for any owner or operator of any new source to operate such source in violation of any standard of performance applicable to such source.

(f)(1) For those categories of major stationary sources that the Administrator listed under subsection (b)(1)(A) before the date of the enactment of the Clean Air Act Amendments of 1990 and for which regulations had not been proposed by the Administrator by such date, the Administrator shall—

(A) propose regulations establishing standards of performance for at least 25 percent of such categories of sources within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990;

(B) propose regulations establishing standards of performance for at least 50 percent of such categories of sources within 4 years after the date of the enactment of the Clean Air Act Amendments of 1990; and

(C) propose regulations for the remaining categories of sources within 6 years after the date of the enactment of the Clean Air Act Amendments of 1990.

(2) In determining priorities for promulgating standards for categories of major stationary sources for the purpose of paragraph (1), the Administrator shall consider—

(A) the quantity of air pollutant emissions which each such category will emit, or will be designed to emit;

(B) the extent to which each such pollutant may reasonably be anticipated to endanger public health or welfare; and

(C) the mobility and competitive nature of each such category of sources and the consequent need for nationally applicable new source standards of performance.

(3) Before promulgating any regulations under this subsection or listing any category of major stationary sources as required under this

subsection, the Administrator shall consult with appropriate representatives of the Governors and of State air pollution control agencies.

(g)(1) Upon application by the Governor of a State showing that the Administrator has failed to specify in regulations under subsection (f)(1) any category of major stationary sources required to be specified under such regulations, the Administrator shall revise such regulations to specify any such category.

(2) Upon application of the Governor of a State, showing that any category of stationary sources which is not included in the list under subsection (b)(1)(A) contributes significantly to air pollution which may reasonably be anticipated to endanger public health or welfare (notwithstanding that such category is not a category of major stationary sources), the Administrator shall revise such regulations to specify such category of stationary sources.

(3) Upon application of the Governor of a State showing that the Administrator has failed to apply properly the criteria required to be considered under subsection (f)(2), the Administrator shall revise the list under subsection (b)(1)(A) to apply properly such criteria.

(4) Upon application of the Governor of a State showing that—

(A) a new, innovative, or improved technology or process which achieves greater continuous emission reduction has been adequately demonstrated for any category of stationary sources, and

(B) as a result of such technology or process, the new source standard of performance in effect under this section for such category no longer reflects the greatest degree of emission limitation achievable through application of the best technological system of continuous emission reduction which (taking into consideration the cost of achieving such emission reduction, and any non-air quality health and environmental impact and energy requirements) has been adequately demonstrated,

the Administrator shall revise such standard of performance for such category accordingly.

(5) Unless later deadlines for action of the Administrator are otherwise prescribed under this section, the Administrator shall, not later than three months following the date of receipt of any application by a Governor of a State, either—

(A) find that such application does not contain the requisite showing and deny such application, or

(B) grant such application and take the action required under this subsection.

(6) Before taking any action required by subsection (f) or by this subsection, the Administrator shall provide notice and opportunity for public hearing.

(h)(1) For purposes of this section, if in the judgment of the Administrator, it is not feasible to prescribe or enforce a standard of performance, he may instead promulgate a design, equipment, work practice, or operational standard, or combination thereof, which reflects the best technological system of continuous emission reduction which (taking into consideration the cost of achieving such emission reduction, and any non-air quality health and environmental impact and energy requirements) the Administrator determines has been adequately demonstrated. In the event the Administrator promulgates a design or equipment standard under this subsection, he shall include as part of such standard such requirements as will assure the proper operation and maintenance of any such element of design or equipment.

(2) For the purpose of this subsection, the phrase "not feasible to prescribe or enforce a standard of performance" means any situation in which the Administrator determines that (A) a pollutant or pollutants cannot be emitted through a conveyance designed and constructed to emit or capture such pollutant, or that any requirement for, or use of, such a conveyance would be inconsistent with any Federal, State, or local law, or (B) the application of measurement methodology to a particular class of sources is not practicable due to technological or economic limitations.

(3) If after notice and opportunity for public hearing, any person establishes to the satisfaction of the Administrator that an alternative means of emission limitation will achieve a reduction in emissions of any air pollutant at least equivalent to the reduction in emissions of such air pollutant achieved under the requirements of paragraph (1), the Administrator shall permit the use of such alternative by the source for purposes of compliance with this section with respect to such pollutant.

(4) Any standard promulgated under paragraph (1) shall be promulgated in terms of standard of performance whenever it becomes feasible to promulgate and enforce such standard in such terms.

(5) Any design, equipment, work practice, or operational standard, or any combination thereof, described in this subsection shall be treated as a standard of performance for purposes of the provisions of this Act (other than the provisions of subsection (a) and this subsection).

(i) Any regulations promulgated by the Administrator under this section applicable to grain elevators shall not apply to country elevators (as defined by the Administrator) which have a storage capacity of less than two million five hundred thousand bushels.

(j)(1)(A) Any person proposing to own or operate a new source may request the Administrator for one or more waivers from the requirements of this section for such source or any portion thereof with respect to any air pollutant to encourage the use of an innovative technological system or systems of continuous emission reduction. The Administrator may, with the consent of the Governor of the State in which the source is to be located, grant a waiver under this paragraph, if the Administrator determines after notice and opportunity for public hearing, that—

(i) the proposed system or systems have not been adequately demonstrated,

(ii) the proposed system or systems will operate effectively and there is a substantial likelihood that such system or systems will achieve greater continuous emission reduction than that required to be achieved under the standards of performance which would otherwise apply, or achieve at least an equivalent reduction at lower cost in terms of energy, economic, or nonair quality environmental impact,

(iii) the owner or operator of the proposed source has demonstrated to the satisfaction of the Administrator that the proposed system will not cause or contribute to an unreasonable risk to public health, welfare, or safety in its operation, function, or malfunction, and

(iv) the granting of such waiver is consistent with the requirements of subparagraph (C).

In making any determination under clause (ii), the Administrator shall take into account any previous failure of such system or systems to operate effectively or to meet any requirement of the new source performance standards. In determining whether an unreasonable risk exists under clause (iii), the Administrator shall consider, among other factors, whether and to what extent the use of the proposed technological system will cause, increase, reduce, or eliminate emissions of any unregulated pollutants; available methods for reducing or eliminating any risk to public health; welfare, or safety which may be associated with the use of such system; and the availability of other technological systems which may be used to conform to standards under this section without causing or contributing to such unreasonable risk. The Administrator may conduct such tests and may require the owner or operator of the proposed source to conduct such tests and provide such information as is necessary to carry out clause (iii) of this subparagraph. Such requirements shall include a requirement for prompt reporting of the emission of any unregulated pollutant from a system if such pollutant was not emitted, or was emitted in significantly lesser amounts without use of such system.

(B) A waiver under this paragraph shall be granted on such terms and conditions as the Administrator determines to be necessary to assure—

(i) emissions from the source will not prevent attainment and maintenance of any national ambient air quality standards, and

(ii) proper functioning of the technological system or systems authorized.

Any such term or condition shall be treated as a standard of performance for the purposes of subsection (e) of this section and section 113.

(C) The number of waivers granted under this paragraph with respect to a proposed technological system of continuous emission reduction shall not exceed such number as the Administrator finds necessary to ascertain whether or not such system will achieve the conditions specified in clauses (ii) and (iii) of subparagraph (A).

(D) A waiver under this paragraph shall extend to the sooner of—

(i) the date determined by the Administrator, after consultation with the owner or operator of the source, taking into consideration the design, installation, and capital cost of the technological system or systems being used, or

(ii) the date on which the Administrator determines that such system has failed to—

(I) achieve at least an equivalent continuous emission reduction to that required to be achieved under the standards of performance which would otherwise apply, or

(II) comply with the condition specified in paragraph (1)(A)(iii),

and that such failure cannot be corrected.

(E) In carrying out subparagraph (D)(i), the Administrator shall not permit any waiver for a source or portion thereof to extend beyond the date—

(i) seven years after the date on which any waiver is granted to such source or portion thereof, or

(ii) four years after the date on which such source or portion thereof commences operation,

whichever is earlier.

(F) No waiver under this subsection shall apply to any portion of a source other than the portion on which the innovative technological system or systems of continuous emission reduction is used.

(2)(A) If a waiver under paragraph (1) is terminated under clause (ii) of paragraph (1)(D), the Administrator shall grant an extension of the requirements of this section for such source for such minimum period as may be necessary to comply with the applicable standard of performance under this section. Such period shall not extend beyond the date three years from the time such waiver is terminated.

(B) An extension granted under this paragraph shall set forth emission limits and a compliance schedule containing increments of progress which require compliance with the applicable standards of performance as expeditiously as practicable and include such mea-

tures as are necessary and practicable in the interim to minimize emissions. Such schedule shall be treated as a standard of performance for purposes of subsection (e) of this and section 113.

[¶ 2112]

Sec. 112. HAZARDOUS AIR POLLUTANTS.

(a) DEFINITIONS.—For purposes of this section, except subsection (r)—

(1) MAJOR SOURCE.—The term “major source” means any stationary source or group of stationary sources located within a contiguous area and under common control that emits or has the potential to emit considering controls, in the aggregate, 10 tons per year or more of any hazardous air pollutant or 25 tons per year or more of any combination of hazardous air pollutants. The Administrator may establish a lesser quantity, or in the case of radionuclides different criteria, for a major source than that specified in the previous sentence, on the basis of the potency of the air pollutant, persistence, potential for bioaccumulation, other characteristics of the air pollutant, or other relevant factors.

(2) AREA SOURCE.—The term “area source” means any stationary source of hazardous air pollutants that is not a major source. For purposes of this section, the term “area source” shall not include motor vehicles or nonroad vehicles subject to regulation under title II.

(3) STATIONARY SOURCE.—The term “stationary source” shall have the same meaning as such term has under section 111(a).

(4) NEW SOURCE.—The term “new source” means a stationary source the construction or reconstruction of which is commenced after the Administrator first proposes regulations under this section establishing an emission standard applicable to such source.

(5) MODIFICATION.—The term “modification” means any physical change in, or change in the method of operation of, a major source which increases the actual emissions of any hazardous air pollutant emitted by such source by more than a de minimis amount or which results in the emission of any hazardous air pollutant not previously emitted by more than a de minimis amount.

(6) HAZARDOUS AIR POLLUTANT.—The term “hazardous air pollutant” means any air pollutant listed pursuant to subsection (b).

(7) ADVERSE ENVIRONMENTAL EFFECT.—The term “adverse environmental effect” means any significant and widespread adverse effect, which may reasonably be anticipated, to wildlife, aquatic life, or other natural resources, including adverse impacts on populations of endangered or threatened species or significant degradation of environmental quality over broad areas.

(8) ELECTRIC UTILITY STEAM GENERATING UNIT.—The term “electric utility steam generating unit” means any fossil fuel fired combustion unit of more than 25 megawatts that serves a generator that produces electricity for sale. A unit that cogenerates steam and electricity and supplies

more than one-third of its potential electric output capacity and more than 25 megawatts electrical output to any utility power distribution system for sale shall be considered an electric utility steam generating unit.

(9) OWNER OR OPERATOR.—The term “owner or operator” means any person who owns, leases, operates, controls, or supervises a stationary source.

(10) EXISTING SOURCE.—The term “existing source” means any stationary source other than a new source.

(11) CARCINOGENIC EFFECT.—Unless revised, the term “carcinogenic effect” shall have the meaning provided by the Administrator under Guidelines for Carcinogenic Risk Assessment as of the date of enactment. Any revisions in the existing Guidelines shall be subject to notice and opportunity for comment.

(b) LIST OF POLLUTANTS.—

(1) INITIAL LIST.—The Congress establishes for purposes of this section a list of hazardous air pollutants as follows:

CAS number	Chemical name	CAS number	Chemical name
75070	Acetaldehyde	463581	Carbonyl sulfide
60355	Acetamide	120809	Catechol
75058	Acetonitrile	133904	Chloramben
98862	Acetophenone	57749	Chlordane
53963	2-Acetylaminofluorene	7782505	Chlorine
107028	Acrolein	79118	Chloroacetic acid
79061	Acrylamide	532274	2-Chloroacetophenone
79107	Acrylic acid	108907	Chlorobenzene
107131	Acrylonitrile	510156	Chlorobenzilate
107051	Allyl chloride	67663	Chloroform
92671	4-Aminobiphenyl	107302	Chloromethyl methyl ether
62533	Aniline	126998	Chloroprene
90040	o-Anisidine	1319773	Cresols/Cresylic acid (isomers and mixture)
1332214	Asbestos	95487	o-Cresol
71432	Benzene (including benzene from gasoline)	108394	m-Cresol
92875	Benzidine	106445	p-Cresol
98077	Benzotrichloride	98828	Cumene
100447	Benzyl chloride	94757	2,4-D, salts and esters
92524	Biphenyl	3547044	DDE
117817	Bis(2-ethylhexyl)phthalate (DEHP)	334883	Diazomethane
542881	Bis(chloromethyl)ether	132649	Dibenzofurans
75252	Bromoform	96128	1,2-Dibromo-3-chloropropane
106990	1,3-Butadiene	84742	Dibutylphthalate
156627	Calcium cyanamide	106467	1,4-Dichlorobenzene(p)
105602	Caprolactam	91941	3,3-Dichlorobenzidene
133062	Captan	111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)
63252	Carbaryl	542756	1,3-Dichloropropene
75150	Carbon disulfide	62737	Dichlorvos
56235	Carbon tetrachloride		

CAS number	Chemical name	CAS number	Chemical name
111422	Diethanolamine	74839	Methyl bromide (Bromomethane)
121697	N, N-Diethyl aniline (N,N-Dimethylaniline)	74873	Methyl chloride (Chloromethane)
64675	Diethyl sulfate	71556	Methyl chloroform (1,1,1-Trichloroethane)
119904	3,3-Dimethoxybenzidine	78933	Methyl ethyl ketone (2-Butanone)
60117	Dimethyl aminoazobenzene	60344	Methyl hydrazine
119937	3,3-Dimethyl benzidine	74884	Methyl iodide (Iodomethane)
79447	Dimethyl carbamoyl chloride	108101	Methyl isobutyl ketone (Hexone)
68122	Dimethyl formamide	624839	Methyl isocyanate
57147	1,1-Dimethyl hydrazine	80626	Methyl methacrylate
131113	Dimethyl phthalate	1634044	Methyl tert butyl ether
77781	Dimethyl sulfate	101144	4,4-Methylene bis(2-chloroaniline)
534521	4,6-Dinitro-o-cresol, and salts	75092	Methylene chloride (Dichloromethane)
51285	2,4-Dinitrophenol	101688	Methylene diphenyl diisocyanate (MDI)
121142	2,4-Dinitrotoluene	101779	4,4-Methylenedianiline
123911	1,4-Dioxane (1,4-Diethyleneoxide)	91203	Naphthalene
122667	1,2-Diphenylhydrazine	98953	Nitrobenzene
106898	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	92933	4-Nitrobiphenyl
106887	1, 2-Epoxybutane	100027	4-Nitrophenol
140885	Ethyl acrylate	79469	2-Nitropropane
100414	Ethyl benzene	684935	N-Nitroso-N-methylurea
51796	Ethyl carbamate (Urethane)	62759	N-Nitrosodimethylamine
75003	Ethyl chloride (Chloroethane)	59892	N-Nitrosomorpholine
106934	Ethylene dibromide (Dibromoethane)	56382	Parathion
107062	Ethylene dichloride (1,2-Dichloroethane)	82688	Pentachloronitrobenzene (Quintobenzene)
107211	Ethylene glycol	87865	Pentachlorophenol
151564	Ethylene imine (Aziridine)	108952	Phenol
75218	Ethylene oxide	106503	p-Phenylenediamine
96457	Ethylene thiourea	75445	Phosgene
75343	Ethylidene dichloride (1,1-Dichloroethane)	7803512	Phosphine
50000	Formaldehyde	7723140	Phosphorus
76448	Heptachlor	85449	Phthalic anhydride
118741	Hexachlorobenzene	1336363	Polychlorinated biphenyls (Aroclors)
87683	Hexachlorobutadiene	1120714	1,3-Propane sultone
77474	Hexachlorocyclopentadiene	75578	beta-Propiolactone
67721	Hexachloroethane	123386	Propionaldehyde
822060	Hexamethylene-1,6-diisocyanate	114261	Propoxur (Baygon)
680319	Hexamethylphosphoramide	78875	Propylene dichloride (1,2-Dichloropropane)
110543	Hexane	75569	Propylene oxide
302012	Hydrazine	75558	1,2-Propylenimine (2-Methyl aziridine)
7647010	Hydrochloric acid	91225	Quinoline
7664393	Hydrogen fluoride (Hydrofluoric acid)	106514	Quinone
7783064	Hydrogen sulfide	100425	Styrene
123319	Hydroquinone	96093	Styrene oxide
78591	Isophorone	1746016	2, 3, 7, 8- Tetrachlorodibenzo-p- dioxin
58899	Lindane (all isomers)	79345	1, 1, 2, 2- Tetrachloroethane
108316	Maleic anhydride		
67561	Methanol		
72435	Methoxychlor		

CAS number	Chemical name	CAS number	Chemical name
127184	Tetrachloroethylene (Perchloroethylene)	95476	o-Xylenes
7550450	Titanium tetrachloride	108383	m-Xylenes
108883	Toluene	106423	p-Xylenes
95807	2,4-Toluene diamine	0	Antimony Compounds
584849	2,4-Toluene diisocyanate	0	Arsenic Compounds (inorganic including arsine)
95534	o-Toluidine	0	Beryllium Compounds
8001352	Toxaphene (chlorinated camphene)	0	Cadmium Compounds
120821	1,2,4-Trichlorobenzene	0	Chromium Compounds
79005	1,1,2-Trichloroethane	0	Cobalt Compounds
79016	Trichloroethylene	0	Coke Oven Emissions
95954	2,4,5-Trichlorophenol	0	Cyanide Compounds ¹
88062	2,4,6-Trichlorophenol	0	Glycol ethers ²
121448	Triethylamine	0	Lead Compounds
1582098	Trifluralin	0	Manganese Compounds
540841	2, 2, 4-Trimethylpentane	0	Mercury Compounds
108054	Vinyl acetate	0	Fine mineral fibers ³
593602	Vinyl bromide	0	Nickel Compounds
75014	Vinyl chloride	0	Polycyclic Organic Matter ⁴
75354	Vinylidene chloride (1,1-Dichloroethylene)	0	Radionuclides (including radon) ⁵
1330207	Xylenes (isomers and mixture)	0	Selenium Compounds

NOTE: For all listings above which contain the word "compounds" and for glycol ethers, the following applies: Unless otherwise specified, these listings are defined as including any unique chemical substance that contains the named chemical (i.e., antimony, arsenic, etc.) as part of that chemical's infrastructure.

¹ X'CN where X = H' or any other group where a formal dissociation may occur. For example KCN or Ca(CN)₂

² Includes mono- and di-ethers of ethylene glycol, diethylene glycol, and triethylene glycol R(OCH₂CH₂)_n-OR' where

n = 1, 2, or 3

R = alkyl or aryl groups

R' = R, H, or groups which, when removed, yield glycol ethers with the structure: R(OCH₂CH₂)_n-OH. Polymers are excluded from the glycol category.

³ Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.

⁴ Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100° C.

⁵ A type of atom which spontaneously undergoes radioactive decay.

(2) REVISION OF THE LIST.—The Administrator shall periodically review the list established by this subsection and publish the results thereof and, where appropriate, revise such list by rule, adding pollutants which present, or may present, through inhalation or other routes of exposure, a threat of adverse human health effects (including, but not limited to, substances which are known to be, or may reasonably be anticipated to be, carcinogenic, mutagenic, teratogenic, neurotoxic, which cause reproductive dysfunction, or which are acutely or chronically toxic) or adverse environmental effects whether through ambient concentrations, bioaccumulation, deposition, or otherwise, but not including releases subject to regulation under subsection (r) as a result of emissions to the air. No air pollutant which is listed under section 108(a) may be

added to the list under this section, except that the prohibition of this sentence shall not apply to any pollutant which independently meets the listing criteria of this paragraph and is a precursor to a pollutant which is listed under section 108(a) or to any pollutant which is in a class of pollutants listed under such section. No substance, practice, process or activity regulated under title VI of this Act shall be subject to regulation under this section solely due to its adverse effects on the environment.

(3) PETITIONS TO MODIFY THE LIST.—

(A) Beginning at any time after 6 months after the date of enactment of the Clean Air Act Amendments of 1990, any person may petition the Administrator to modify the list of hazardous air pollutants under this subsection by adding or deleting a substance or, in case of listed pollutants without CAS numbers (other than coke oven emissions, mineral fibers, or polycyclic organic matter) removing certain unique substances. Within 18 months after receipt of a petition, the Administrator shall either grant or deny the petition by publishing a written explanation of the reasons for the Administrator's decision. Any such petition shall include a showing by the petitioner that there is adequate data on the health or environmental effects of the pollutant or other evidence adequate to support the petition. The Administrator may not deny a petition solely on the basis of inadequate resources or time for review.

(B) The Administrator shall add a substance to the list upon a showing by the petitioner or on the Administrator's own determination that the substance is an air pollutant and that emissions, ambient concentrations, bioaccumulation or deposition of the substance are known to cause or may reasonably be anticipated to cause adverse effects to human health or adverse environmental effects.

(C) The Administrator shall delete a substance from the list upon a showing by the petitioner or on the Administrator's own determination that there is adequate data on the health and environmental effects of the substance to determine that emissions, ambient concentrations, bioaccumulation or deposition of the substance may not reasonably be anticipated to cause any adverse effects to the human health or adverse environmental effects.

(D) The Administrator shall delete one or more unique chemical substances that contain a listed hazardous air pollutant not having a CAS number (other than coke oven emissions, mineral fibers, or polycyclic organic matter) upon a showing by the petitioner or on the Administrator's own determination that such unique chemical substances that contain the named chemical of such listed hazardous air pollutant meet the deletion requirements of subparagraph (C). The Administrator must grant or deny a deletion petition prior to promulgating any emission standards pursuant to subsection (d) applicable to any source category or subcategory of a listed hazardous air pollutant without a CAS number listed under subsection (b)

for which a deletion petition has been filed within 12 months of the date of enactment of the Clean Air Act Amendments of 1990.

(4) FURTHER INFORMATION.—If the Administrator determines that information on the health or environmental effects of a substance is not sufficient to make a determination required by this subsection, the Administrator may use any authority available to the Administrator to acquire such information.

(5) TEST METHODS.—The Administrator may establish, by rule, test measures and other analytic procedures for monitoring and measuring emissions, ambient concentrations, deposition, and bioaccumulation of hazardous air pollutants.

(6) PREVENTION OF SIGNIFICANT DETERIORATION.—The provisions of part C (prevention of significant deterioration) shall not apply to pollutants listed under this section.

(7) LEAD.—The Administrator may not list elemental lead as a hazardous air pollutant under this subsection.

(c) LIST OF SOURCE CATEGORIES.—

(1) IN GENERAL.—Not later than 12 months after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall publish, and shall from time to time, but no less often than every 8 years, revise, if appropriate, in response to public comment or new information, a list of all categories and subcategories of major sources and area sources (listed under paragraph (3)) of the air pollutants listed pursuant to subsection (b). To the extent practicable, the categories and subcategories listed under this subsection shall be consistent with the list of source categories established pursuant to section 111 and part C. Nothing in the preceding sentence limits the Administrator's authority to establish subcategories under this section, as appropriate.

(2) REQUIREMENT FOR EMISSIONS STANDARDS.—For the categories and subcategories the Administrator lists, the Administrator shall establish emissions standards under subsection (d), according to the schedule in this subsection and subsection (e).

(3) AREA SOURCES.—The Administrator shall list under this subsection each category or subcategory of area sources which the Administrator finds presents a threat of adverse effects to human health or the environment (by such sources individually or in the aggregate) warranting regulation under this section. The Administrator shall, not later than 5 years after the date of enactment of the Clean Air Act Amendments of 1990 and pursuant to subsection (k)(3)(B), list, based on actual or estimated aggregate emissions of a listed pollutant or pollutants, sufficient categories or subcategories of area sources to ensure that area sources representing 90 percent of the area source emissions of the 30 hazardous air pollutants that present the greatest threat to public health in the largest number of urban areas are subject to regulation under this

section. Such regulations shall be promulgated not later than 10 years after such date of enactment.

(4) PREVIOUSLY REGULATED CATEGORIES.—The Administrator may, in the Administrator's discretion, list any category or subcategory of sources previously regulated under this section as in effect before the date of enactment of the Clean Air Act Amendments of 1990.

(5) ADDITIONAL CATEGORIES.—In addition to those categories and subcategories of sources listed for regulation pursuant to paragraphs (1) and (3), the Administrator may at any time list additional categories and subcategories of sources of hazardous air pollutants according to the same criteria for listing applicable under such paragraphs. In the case of source categories and subcategories listed after publication of the initial list required under paragraph (1) or (3), emission standards under subsection (d) for the category or subcategory shall be promulgated within 10 years after the date of enactment of the Clean Air Act Amendments of 1990, or within 2 years after the date on which such category or subcategory is listed, whichever is later.

(6) SPECIFIC POLLUTANTS.—With respect to alkylated lead compounds, polycyclic organic matter, hexachlorobenzene, mercury, polychlorinated biphenyls, 2, 3, 7, 8-tetrachlorodibenzofurans and 2, 3, 7, 8-tetrachlorodibenzo-p-dioxin, the Administrator shall, not later than 5 years after the date of enactment of the Clean Air Act Amendments of 1990, list categories and subcategories of sources assuring that sources accounting for not less than 90 per centum of the aggregate emissions of each such pollutant are subject to standards under subsection (d)(2) or (d)(4). Such standards shall be promulgated not later than 10 years after such date of enactment. This paragraph shall not be construed to require the Administrator to promulgate standards for such pollutants emitted by electric utility steam generating units.

(7) RESEARCH FACILITIES.—The Administrator shall establish a separate category covering research or laboratory facilities, as necessary to assure the equitable treatment of such facilities. For purposes of this section, "research or laboratory facility" means any stationary source whose primary purpose is to conduct research and development into new processes and products, where such source is operated under the close supervision of technically trained personnel and is not engaged in the manufacture of products for commercial sale in commerce, except in a de minimis manner.

(8) BOAT MANUFACTURING.—When establishing emissions standards for styrene, the Administrator shall list boat manufacturing as a separate subcategory unless the Administrator finds that such listing would be inconsistent with the goals and requirements of this Act.

(9) DELETIONS FROM THE LIST.—

(A) Where the sole reason for the inclusion of a source category on the list required under this subsection is the emission of a unique chemical substance, the Administrator shall delete the source cate-

gory from the list if it is appropriate because of action taken under either subparagraphs (C) or (D) of subsection (b)(3).

(B) The Administrator may delete any source category from the list under this subsection, on petition of any person or on the Administrator's own motion, whenever the Administrator makes the following determination or determinations, as applicable:

(i) In the case of hazardous air pollutants emitted by sources in the category that may result in cancer in humans, a determination that no source in the category (or group of sources in the case of area sources) emits such hazardous air pollutants in quantities which may cause a lifetime risk of cancer greater than one in one million to the individual in the population who is most exposed to emissions of such pollutants from the source (or group of sources in the case of area sources).

(ii) In the case of hazardous air pollutants that may result in adverse health effects in humans other than cancer or adverse environmental effects, a determination that emissions from no source in the category or subcategory concerned (or group of sources in the case of area sources) exceed a level which is adequate to protect public health with an ample margin of safety and no adverse environmental effect will result from emissions from any source (or from a group of sources in the case of area sources).

The Administrator shall grant or deny a petition under this paragraph within 1 year after the petition is filed.

(d) EMISSION STANDARDS.—

(1) IN GENERAL.—The Administrator shall promulgate regulations establishing emission standards for each category or subcategory of major sources and area sources of hazardous air pollutants listed for regulation pursuant to subsection (c) in accordance with the schedules provided in subsections (c) and (e). The Administrator may distinguish among classes, types, and sizes of sources within a category or subcategory in establishing such standards except that, there shall be no delay in the compliance date for any standard applicable to any source under subsection (i) as the result of the authority provided by this sentence.

(2) STANDARDS AND METHODS.—Emissions standards promulgated under this subsection and applicable to new or existing sources of hazardous air pollutants shall require the maximum degree of reduction in emissions of the hazardous air pollutants subject to this section (including a prohibition on such emissions, where achievable) that the Administrator, taking into consideration the cost of achieving such emission reduction, and any nonair quality health and environmental impacts and energy requirements, determines is achievable for new or existing sources in the category or subcategory to which such emission standard applies, through application of measures, processes, methods, systems or techniques including, but not limited to, measures which—

(A) reduce the volume of, or eliminate emissions of, such pollutants through process changes, substitution of materials or other modifications,

(B) enclose system's or processes to eliminate emissions,

(C) collect, capture or treat such pollutants when released from a process, stack, storage or fugitive emissions point,

(D) are design, equipment, work practice, or operational standards (including requirements for operator training or certification) as provided in subsection (h), or

(E) are a combination of the above.

None of the measures described in subparagraphs (A) through (D) shall, consistent with the provisions of section 114(c), in any way compromise any United States patent or United States trademark right, or any confidential business information, or any trade secret or any other intellectual property right.

(3) NEW AND EXISTING SOURCES.—The maximum degree of reduction in emissions that is deemed achievable for new sources in a category or subcategory shall not be less stringent than the emission control that is achieved in practice by the best controlled similar source, as determined by the Administrator. Emission standards promulgated under this subsection for existing sources in a category or subcategory may be less stringent than standards for new sources in the same category or subcategory but shall not be less stringent, and may be more stringent than—

(A) the average emission limitation achieved by the best performing 12 percent of the existing sources (for which the Administrator has emissions information), excluding those sources that have, within 18 months before the emission standard is proposed or within 30 months before such standard is promulgated, whichever is later, first achieved a level of emission rate or emission reduction which complies, or would comply if the source is not subject to such standard, with the lowest achievable emission rate (as defined by section 171) applicable to the source category and prevailing at the time, in the category or subcategory for categories and subcategories with 30 or more sources, or

(B) the average emission limitation achieved by the best performing 5 sources (for which the Administrator has or could reasonably obtain emissions information) in the category or subcategory for categories or subcategories with fewer than 30 sources.

(4) HEALTH THRESHOLD.—With respect to pollutants for which a health threshold has been established, the Administrator may consider such threshold level, with an ample margin of safety, when establishing emission standards under this subsection

(5) ALTERNATIVE STANDARD FOR AREA SOURCES.—With respect only to categories and subcategories of area sources listed pursuant to subsection (c), the Administrator may, in lieu of the authorities provided in para-

graph (2) and subsection (f), elect to promulgate standards or requirements applicable to sources in such categories or subcategories which provide for the use of generally available control technologies or management practices by such sources to reduce emissions of hazardous air pollutants.

(6) REVIEW AND REVISION.—The Administrator shall review, and revise as necessary (taking into account developments in practices, processes, and control technologies), emission standards promulgated under this section no less often than every 8 years.

(7) OTHER REQUIREMENTS PRESERVED.—No emission standard or other requirement promulgated under this section shall be interpreted, construed or applied to diminish or replace the requirements of a more stringent emission limitation or other applicable requirement established pursuant to section 111, part C or D, or other authority of this Act or a standard issued under State authority.

(8) COKE OVENS.—

(A) Not later than December 31, 1992, the Administrator shall promulgate regulations establishing emission standards under paragraphs (2) and (3) of this subsection for coke oven batteries. In establishing such standards, the Administrator shall evaluate—

(i) the use of sodium silicate (or equivalent) luting compounds to prevent door leaks, and other operating practices and technologies for their effectiveness in reducing coke oven emissions, and their suitability for use on new and existing coke oven batteries, taking into account costs and reasonable commercial door warranties; and

(ii) as a basis for emission standards under this subsection for new coke oven batteries that begin construction after the date of proposal of such standards, the Jewell design Thompson non-recovery coke oven batteries and other non-recovery coke oven technologies, and other appropriate emission control and coke production technologies, as to their effectiveness in reducing coke oven emissions and their capability for production of steel quality coke.

Such regulations shall require at a minimum that coke oven batteries will not exceed 8 per centum leaking doors, 1 per centum leaking lids, 5 per centum leaking offtakes, and 16 seconds visible emissions per charge, with no exclusion for emissions during the period after the closing of self-sealing oven doors. Notwithstanding subsection (i), the compliance date for such emission standards for existing coke oven batteries shall be December 31, 1995.

(B) The Administrator shall promulgate work practice regulations under this subsection for coke oven batteries requiring, as appropriate—

(i) the use of sodium silicate (or equivalent) luting compounds, if the Administrator determines that use of sodium silicate is an effective means of emissions control and is achievable, taking into account costs and reasonable commercial warranties for doors and related equipment; and

(ii) door and jamb cleaning practices.

Notwithstanding subsection (i), the compliance date for such work practice regulations for coke oven batteries shall be not later than the date 3 years after the date of enactment of the Clean Air Act Amendments of 1990.

(C) For coke oven batteries electing to qualify for an extension of the compliance date for standards promulgated under subsection (f) in accordance with subsection (i)(8), the emission standards under this subsection for coke oven batteries shall require that coke oven batteries not exceed 8 per centum leaking doors, 1 per centum leaking lids, 5 per centum leaking oftakes, and 16 seconds visible emissions per charge, with no exclusion for emissions during the period after the closing of self-sealing doors. Notwithstanding subsection (i), the compliance date for such emission standards for existing coke oven batteries seeking an extension shall be not later than the date 3 years after the date of enactment of the Clean Air Act Amendments of 1990.

(9) SOURCES LICENSED BY THE NUCLEAR REGULATORY COMMISSION.—No standard for radionuclide emissions from any category or subcategory of facilities licensed by the Nuclear Regulatory Commission (or an Agreement State) is required to be promulgated under this section if the Administrator determines, by rule, and after consultation with the Nuclear Regulatory Commission, that the regulatory program established by the Nuclear Regulatory Commission pursuant to the Atomic Energy Act for such category or subcategory provides an ample margin of safety to protect the public health. Nothing in this subsection shall preclude or deny the right of any State or political subdivision thereof to adopt or enforce any standard or limitation respecting emissions of radionuclides which is more stringent than the standard or limitation in effect under section 111 or this section.

(10) EFFECTIVE DATE.—Emission standards or other regulations promulgated under this subsection shall be effective upon promulgation.

(e) SCHEDULE FOR STANDARDS AND REVIEW.—

(1) IN GENERAL.—The Administrator shall promulgate regulations establishing emission standards for categories and subcategories of sources initially listed for regulation pursuant to subsection (c)(1) as expeditiously as practicable, assuring that—

(A) emission standards for not less than 40 categories and subcategories (not counting coke oven batteries) shall be promul-

gated not later than 2 years after the date of enactment of the Clean Air Act Amendments of 1990;

(B) emission standards for coke oven batteries shall be promulgated not later than December 31, 1992;

(C) emission standards for 25 per centum of the listed categories and subcategories shall be promulgated not later than 4 years after the date of enactment of the Clean Air Act Amendments of 1990;

(D) emission standards for an additional 25 per centum of the listed categories and subcategories shall be promulgated not later than 7 years after the date of enactment of the Clean Air Act Amendments of 1990; and

(E) emission standards for all categories and subcategories shall be promulgated not later than 10 years after the date of enactment of the Clean Air Act Amendments of 1990.

(2) In determining priorities for promulgating standards under subsection (d), the Administrator shall consider—

(A) the known or anticipated adverse effects of such pollutants on public health and the environment;

(B) the quantity and location of emissions or reasonably anticipated emissions of hazardous air pollutants that each category or subcategory will emit; and

(C) the efficiency of grouping categories or subcategories according to the pollutants emitted, or the processes or technologies used.

(3) PUBLISHED SCHEDULE.—Not later than 24 months after the date of enactment of the Clean Air Act Amendments of 1990 and after opportunity for comment, the Administrator shall publish a schedule establishing a date for the promulgation of emission standards for each category and subcategory of sources listed pursuant to subsection (c)(1) and (3) which shall be consistent with the requirements of paragraphs (1) and (2). The determination of priorities for the promulgation of standards pursuant to this paragraph is not a rulemaking and shall not be subject to judicial review, except that, failure to promulgate any standard pursuant to the schedule established by this paragraph shall be subject to review under section 304 of this Act.

(4) JUDICIAL REVIEW.—Notwithstanding section 307 of this Act, no action of the Administrator adding a pollutant to the list under subsection (b) or listing a source category or subcategory under subsection (c) shall be a final agency action subject to judicial review, except that any such action may be reviewed under such section 307 when the Administrator issues emission standards for such pollutant or category.

(5) PUBLICLY OWNED TREATMENT WORKS.—The Administrator shall promulgate standards pursuant to subsection (d) applicable to publicly owned treatment works (as defined in title II of the Federal Water

Pollution Control Act) not later than 5 years after the date of enactment of the Clean Air Act Amendments of 1990.

(f) STANDARD TO PROTECT HEALTH AND THE ENVIRONMENT.—

(1) REPORT.—Not later than 6 years after the date of enactment of the Clean Air Act Amendments of 1990 the Administrator shall investigate and report, after consultation with the Surgeon General and after opportunity for public comment, to Congress on—

(A) methods of calculating the risk to public health remaining, or likely to remain, from sources subject to regulation under this section after the application of standards under subsection (d);

(B) the public health significance of such estimated remaining risk and the technologically and commercially available methods and costs of reducing such risks;

(C) the actual health effects with respect to persons living in the vicinity of sources, any available epidemiological or other health studies, risks presented by background concentrations of hazardous air pollutants, any uncertainties in risk assessment methodology or other health assessment technique, and any negative health or environmental consequences to the community of efforts to reduce such risks; and

(D) recommendations as to legislation regarding such remaining risk.

(2) EMISSION STANDARDS.—

(A) If Congress does not act on any recommendation submitted under paragraph (1), the Administrator shall, within 8 years after promulgation of standards for each category or subcategory of sources pursuant to subsection (d), promulgate standards for such category or subcategory if promulgation of such standards is required in order to provide an ample margin of safety to protect public health in accordance with this section (as in effect before the date of enactment of the Clean Air Act Amendments of 1990) or to prevent, taking into consideration costs, energy, safety, and other relevant factors, an adverse environmental effect. Emission standards promulgated under this subsection shall provide an ample margin of safety to protect public health in accordance with this section (as in effect before the date of enactment of the Clean Air Act Amendments of 1990), unless the Administrator determines that a more stringent standard is necessary to prevent, taking into consideration costs, energy, safety, and other relevant factors, an adverse environmental effect. If standards promulgated pursuant to subsection (d) and applicable to a category or subcategory of sources emitting a pollutant (or pollutants) classified as a known, probable or possible human carcinogen do not reduce lifetime excess cancer risks to the individual most exposed to emissions from a source in the category or subcategory to less than one in one million, the Adminis-

trator shall promulgate standards under this subsection for such source category.

(B) Nothing in subparagraph (A) or in any other provision of this section shall be construed as affecting, or applying to the Administrator's interpretation of this section, as in effect before the date of enactment of the Clean Air Act Amendments of 1990 and set forth in the Federal Register of September 14, 1989 (54 Federal Register 38044).

(C) The Administrator shall determine whether or not to promulgate such standards and, if the Administrator decides to promulgate such standards, shall promulgate the standards 8 years after promulgation of the standards under subsection (d) for each source category or subcategory concerned. In the case of categories or subcategories for which standards under subsection (d) are required to be promulgated within 2 years after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall have 9 years after promulgation of the standards under subsection (d) to make the determination under the preceding sentence and, if required, to promulgate the standards under this paragraph.

(3) EFFECTIVE DATE.—Any emission standard established pursuant to this subsection shall become effective upon promulgation.

(4) PROHIBITION.—No air pollutant to which a standard under this subsection applies may be emitted from any stationary source in violation of such standard, except that in the case of an existing source—

(A) such standard shall not apply until 90 days after its effective date, and

(B) the Administrator may grant a waiver permitting such source a period of up to 2 years after the effective date of a standard to comply with the standard if the Administrator finds that such period is necessary for the installation of controls and that steps will be taken during the period of the waiver to assure that the health of persons will be protected from imminent endangerment.

(5) AREA SOURCES.—The Administrator shall not be required to conduct any review under this subsection or promulgate emission limitations under this subsection for any category or subcategory of area sources that is listed pursuant to subsection (c)(3) and for which an emission standard is promulgated pursuant to subsection (d)(5).

(6) UNIQUE CHEMICAL SUBSTANCES.—In establishing standards for the control of unique chemical substances of listed pollutants without CAS numbers under this subsection, the Administrator shall establish such standards with respect to the health and environmental effects of the substances actually emitted by sources and direct transformation byproducts of such emissions in the categories and subcategories.

(g) MODIFICATIONS.—

(1) OFFSETS.—

(A) A physical change in, or change in the method of operation of, a major source which results in a greater than de minimis increase in actual emissions of a hazardous air pollutant shall not be considered a modification, if such increase in the quantity of actual emissions of any hazardous air pollutant from such source will be offset by an equal or greater decrease in the quantity of emissions of another hazardous air pollutant (or pollutants) from such source which is deemed more hazardous, pursuant to guidance issued by the Administrator under subparagraph (B). The owner or operator of such source shall submit a showing to the Administrator (or the State) that such increase has been offset under the preceding sentence.

(B) The Administrator shall, after notice and opportunity for comment and not later than 18 months after the date of enactment of the Clean Air Act Amendments of 1990, publish guidance with respect to implementation of this subsection. Such guidance shall include an identification, to the extent practicable, of the relative hazard to human health resulting from emissions to the ambient air of each of the pollutants listed under subsection (b) sufficient to facilitate the offset showing authorized by subparagraph (A). Such guidance shall not authorize offsets between pollutants where the increased pollutant (or more than one pollutant in a stream of pollutants) causes adverse effects to human health for which no safety threshold for exposure can be determined unless there are corresponding decreases in such types of pollutant(s).

(2) CONSTRUCTION, RECONSTRUCTION AND MODIFICATIONS.—

(A) After the effective date of a permit program under title V in any State, no person may modify a major source of hazardous air pollutants in such State, unless the Administrator (or the State) determines that the maximum achievable control technology emission limitation under this section for existing sources will be met. Such determination shall be made on a case-by-case basis where no applicable emissions limitations have been established by the Administrator.

(B) After the effective date of a permit program under title V in any State, no person may construct or reconstruct any major source of hazardous air pollutants, unless the Administrator (or the State) determines that the maximum achievable control technology emission limitation under this section for new sources will be met. Such determination shall be made on a case-by-case basis where no applicable emission limitations have been established by the Administrator.

(3) PROCEDURES FOR MODIFICATIONS.—The Administrator (or the State) shall establish reasonable procedures for assuring that the requirements applying to modifications under this section are reflected in the permit.

(h) WORK PRACTICE STANDARDS AND OTHER REQUIREMENTS.—

(1) IN GENERAL.—For purposes of this section, if it is not feasible in the judgment of the Administrator to prescribe or enforce an emission standard for control of a hazardous air pollutant or pollutants, the Administrator may, in lieu thereof, promulgate a design, equipment, work practice, or operational standard, or combination thereof, which in the Administrator's judgment is consistent with the provisions of subsection (d) or (f). In the event the Administrator promulgates a design or equipment standard under this subsection, the Administrator shall include as part of such standard such requirements as will assure the proper operation and maintenance of any such element of design or equipment.

(2) DEFINITION.—For the purpose of this subsection, the phrase “not feasible to prescribe or enforce an emission standard” means any situation in which the Administrator determines that—

(A) a hazardous air pollutant or pollutants cannot be emitted through a conveyance designed and constructed to emit or capture such pollutant, or that any requirement for, or use of, such a conveyance would be inconsistent with any Federal, State or local law, or

(B) the application of measurement methodology to a particular class of sources is not practicable due to technological and economic limitations.

(3) ALTERNATIVE STANDARD.—If after notice and opportunity for comment, the owner or operator of any source establishes to the satisfaction of the Administrator that an alternative means of emission limitation will achieve a reduction in emissions of any air pollutant at least equivalent to the reduction in emissions of such pollutant achieved under the requirements of paragraph (1), the Administrator shall permit the use of such alternative by the source for purposes of compliance with this section with respect to such pollutant.

(4) NUMERICAL STANDARD REQUIRED.—Any standard promulgated under paragraph (1) shall be promulgated in terms of an emission standard whenever it is feasible to promulgate and enforce a standard in such terms.

(i) SCHEDULE FOR COMPLIANCE.—

(1) PRECONSTRUCTION AND OPERATING REQUIREMENTS.—After the effective date of any emission standard, limitation, or regulation under subsection (d), (f) or (h), no person may construct any new major source or reconstruct any existing major source subject to such emission standard, regulation or limitation unless the Administrator (or a State with a permit program approved under title V) determines that such source, if properly constructed, reconstructed and operated, will comply with the standard, regulation or limitation.

(2) SPECIAL RULE.—Notwithstanding the requirements of paragraph (1), a new source which commences construction or reconstruction after a standard, limitation or regulation applicable to such source is proposed and before such standard, limitation or regulation is promulgated shall not be required to comply with such promulgated standard until the date 3 years after the date of promulgation if—

(A) the promulgated standard, limitation or regulation is more stringent than the standard, limitation or regulation proposed; and

(B) the source complies with the standard, limitation, or regulation as proposed during the 3-year period immediately after promulgation.

(3) COMPLIANCE SCHEDULE FOR EXISTING SOURCES.—

(A) After the effective date of any emissions standard, limitation or regulation promulgated under this section and applicable to a source, no person may operate such source in violation of such standard, limitation or regulation except, in the case of an existing source, the Administrator shall establish a compliance date or dates for each category or subcategory of existing sources, which shall provide for compliance as expeditiously as practicable, but in no event later than 3 years after the effective date of such standard, except as provided in subparagraph (B) and paragraphs (4) through (8).

(B) The Administrator (or a State with a program approved under title V) may issue a permit that grants an extension permitting an existing source up to 1 additional year to comply with standards under subsection (d) if such additional period is necessary for the installation of controls. An additional extension of up to 3 years may be added for mining waste operations, if the 4-year compliance time is insufficient to dry and cover mining waste in order to reduce emissions of any pollutant listed under subsection (b).

(4) PRESIDENTIAL EXEMPTION.—The President may exempt any stationary source from compliance with any standard or limitation under this section for a period of not more than 2 years if the President determines that the technology to implement such standard is not available and that it is in the national security interests of the United States to do so. An exemption under this paragraph may be extended for 1 or more additional periods, each period not to exceed 2 years. The President shall report to Congress with respect to each exemption (or extension thereof) made under this paragraph.

(5) EARLY REDUCTION.—

(A) The Administrator (or a State acting pursuant to a permit program approved under title V) shall issue a permit allowing an existing source, for which the owner or operator demonstrates that the source has achieved a reduction of 90 per centum or more in

emissions of hazardous air pollutants (95 per centum in the case of hazardous air pollutants which are particulates) from the source, to meet an alternative emission limitation reflecting such reduction in lieu of an emission limitation promulgated under subsection (d) for a period of 6 years from the compliance date for the otherwise applicable standard, provided that such reduction is achieved before the otherwise applicable standard under subsection (d) is first proposed. Nothing in this paragraph shall preclude a State from requiring reductions in excess of those specified in this subparagraph as a condition of granting the extension authorized by the previous sentence.

(B) An existing source which achieves the reduction referred to in subparagraph (A) after the proposal of an applicable standard but before January 1, 1994, may qualify under subparagraph (A), if the source makes an enforceable commitment to achieve such reduction before the proposal of the standard. Such commitment shall be enforceable to the same extent as a regulation under this section.

(C) The reduction shall be determined with respect to verifiable and actual emissions in a base year not earlier than calendar year 1987, provided that there is no evidence that emissions in the base year are artificially or substantially greater than emissions in other years prior to implementation of emissions reduction measures. The Administrator may allow a source to use a baseline year of 1985 or 1986 provided that the source can demonstrate to the satisfaction of the Administrator that emissions data for the source reflects verifiable data based on information for such source, received by the Administrator prior to the enactment of the Clean Air Act Amendments of 1990, pursuant to an information request issued under section 114.

(D) For each source granted an alternative emission limitation under this paragraph there shall be established by a permit issued pursuant to title V an enforceable emission limitation for hazardous air pollutants reflecting the reduction which qualifies the source for an alternative emission limitation under this paragraph. An alternative emission limitation under this paragraph shall not be available with respect to standards or requirements promulgated pursuant to subsection (f) and the Administrator shall, for the purpose of determining whether a standard under subsection (f) is necessary, review emissions from sources granted an alternative emission limitation under this paragraph at the same time that other sources in the category or subcategory are reviewed.

(E) With respect to pollutants for which high risks of adverse public health effects may be associated with exposure to small quantities including, but not limited to, chlorinated dioxins and furans, the Administrator shall by regulation limit the use of offsetting reductions in emissions of other hazardous air pollutants from the source as counting toward the 90 per centum reduction in such

high-risk pollutants qualifying for an alternative emissions limitation under this paragraph.

(6) OTHER REDUCTIONS.—Notwithstanding the requirements of this section, no existing source that has installed—

(A) best available control technology (as defined in section 169(3)), or

(B) technology required to meet a lowest achievable emission rate (as defined in section 171),

prior to the promulgation of a standard under this section applicable to such source and the same pollutant (or stream of pollutants) controlled pursuant to an action described in subparagraph (A) or (B) shall be required to comply with such standard under this section until the date 5 years after the date on which such installation or reduction has been achieved, as determined by the Administrator. The Administrator may issue such rules and guidance as are necessary to implement this paragraph.

(7) EXTENSION FOR NEW SOURCES.—A source for which construction or reconstruction is commenced after the date an emission standard applicable to such source is proposed pursuant to subsection (d) but before the date an emission standard applicable to such source is proposed pursuant to subsection (f) shall not be required to comply with the emission standard under subsection (f) until the date 10 years after the date construction or reconstruction is commenced.

(8) COKE OVENS.—

(A) Any coke oven battery that complies with the emission limitations established under subsection (d)(8)(C), subparagraph (B), and subparagraph (C), and complies with the provisions of subparagraph (E), shall not be required to achieve emission limitations promulgated under subsection (f) until January 1, 2020.

(B)(i) Not later than December 31, 1992, the Administrator shall promulgate emission limitations for coke oven emissions from coke oven batteries. Notwithstanding paragraph (3) of this subsection, the compliance date for such emission limitations for existing coke oven batteries shall be January 1, 1998. Such emission limitations shall reflect the lowest achievable emission rate as defined in section 171 for a coke oven battery that is rebuilt or a replacement at a coke oven plant for an existing battery. Such emission limitations shall be no less stringent than—

(I) 3 per centum leaking doors (5 per centum leaking doors for six meter batteries);

(II) 1 per centum leaking lids;

(III) 4 per centum leaking offtakes; and

(IV) 16 seconds visible emissions per charge,

with an exclusion for emissions during the period after the closing of self-sealing oven doors (or the total mass emissions equivalent). The rulemaking in which such emission limitations are promulgated shall also establish an appropriate measurement methodology for determining compliance with such emission limitations, and shall establish such emission limitations in terms of an equivalent level of mass emissions reduction from a coke oven battery, unless the Administrator finds that such a mass emissions standard would not be practicable or enforceable. Such measurement methodology, to the extent it measures leaking doors, shall take into consideration alternative test methods that reflect the best technology and practices actually applied in the affected industries, and shall assure that the final test methods are consistent with the performance of such best technology and practices.

(ii) If the Administrator fails to promulgate such emission limitations under this subparagraph prior to the effective date of such emission limitations, the emission limitations applicable to coke oven batteries under this subparagraph shall be—

(I) 3 per centum leaking doors (5 per centum leaking doors for six meter batteries);

(II) 1 per centum leaking lids;

(III) 4 per centum leaking offtakes; and

(IV) 16 seconds visible emissions per charge, or the total mass emissions equivalent (if the total mass emissions equivalent is determined to be practicable and enforceable), with no exclusion for emissions during the period after the closing of self-sealing oven doors.

(C) Not later than January 1, 2007, the Administrator shall review the emission limitations promulgated under subparagraph (B) and revise, as necessary, such emission limitations to reflect the lowest achievable emission rate as defined in section 171 at the time for a coke oven battery that is rebuilt or a replacement at a coke oven plant for an existing battery. Such emission limitations shall be no less stringent than the emission limitation promulgated under subparagraph (B). Notwithstanding paragraph (2) of this subsection, the compliance date for such emission limitations for existing coke oven batteries shall be January 1, 2010.

(D) At any time prior to January 1, 1998, the owner or operator of any coke oven battery may elect to comply with emission limitations promulgated under subsection (f) by the date such emission limitations would otherwise apply to such coke oven battery, in lieu of the emission limitations and the compliance dates provided under subparagraphs (B) and (C) of this paragraph. Any such owner or operator shall be legally bound to comply with such emission limitations promulgated under subsection (f) with respect to such coke

oven battery as of January 1, 2003. If no such emission limitations have been promulgated for such coke oven battery, the Administrator shall promulgate such emission limitations in accordance with subsection (f) for such coke oven battery.

(E) Coke oven batteries qualifying for an extension under subparagraph (A) shall make available not later than January 1, 2000, to the surrounding communities the results of any risk assessment performed by the Administrator to determine the appropriate level of any emission standard established by the Administrator pursuant to subsection (f).

(F) Notwithstanding the provisions of this section, reconstruction of any source of coke oven emissions qualifying for an extension under this paragraph shall not subject such source to emission limitations under subsection (f) more stringent than those established under subparagraphs (B) and (C) until January 1, 2020. For the purposes of this subparagraph, the term "reconstruction" includes the replacement of existing coke oven battery capacity with new coke oven batteries of comparable or lower capacity and lower potential emissions.

(j) EQUIVALENT EMISSION LIMITATION BY PERMIT.—

(1) **EFFECTIVE DATE.**—The requirements of this subsection shall apply in each State beginning on the effective date of a permit program established pursuant to title V in such State, but not prior to the date 42 months after the date of enactment of the Clean Air Act Amendments of 1990.

(2) **FAILURE TO PROMULGATE A STANDARD.**—In the event that the Administrator fails to promulgate a standard for a category or subcategory of major sources by the date established pursuant to subsection (e)(1) and (3), and beginning 18 months after such date (but not prior to the effective date of a permit program under title V), the owner or operator of any major source in such category or subcategory shall submit a permit application under paragraph (3) and such owner or operator shall also comply with paragraphs (5) and (6).

(3) **APPLICATIONS.**—By the date established by paragraph (2), the owner or operator of a major source subject to this subsection shall file an application for a permit. If the owner or operator of a source has submitted a timely and complete application for a permit required by this subsection, any failure to have a permit shall not be a violation of paragraph (2), unless the delay in final action is due to the failure of the applicant to timely submit information required or requested to process the application. The Administrator shall not later than 18 months after the date of enactment of the Clean Air Act Amendments of 1990, and after notice and opportunity for comment, establish requirements for applications under this subsection including a standard application form

and criteria for determining in a timely manner the completeness of applications.

(4) **REVIEW AND APPROVAL.**—Permit applications submitted under this subsection shall be reviewed and approved or disapproved according to the provisions of section 505. In the event that the Administrator (or the State) disapproves a permit application submitted under this subsection or determines that the application is incomplete, the applicant shall have up to 6 months to revise the application to meet the objections of the Administrator (or the State).

(5) **EMISSION LIMITATION.**—The permit shall be issued pursuant to title V and shall contain emission limitations for the hazardous air pollutants subject to regulation under this section and emitted by the source that the Administrator (or the State) determines, on a case-by-case basis, to be equivalent to the limitation that would apply to such source if an emission standard had been promulgated in a timely manner under subsection (d). In the alternative, if the applicable criteria are met, the permit may contain an emissions limitation established according to the provisions of subsection (i)(5). For purposes of the preceding sentence, the reduction required by subsection (i)(5)(A) shall be achieved by the date on which the relevant standard should have been promulgated under subsection (d). No such pollutant may be emitted in amounts exceeding an emission limitation contained in a permit immediately for new sources and, as expeditiously as practicable, but not later than the date 3 years after the permit is issued for existing sources or such other compliance date as would apply under subsection (i).

(6) **APPLICABILITY OF SUBSEQUENT STANDARDS.**—If the Administrator promulgates an emission standard that is applicable to the major source prior to the date on which a permit application is approved, the emission limitation in the permit shall reflect the promulgated standard rather than the emission limitation determined pursuant to paragraph (5), provided that the source shall have the compliance period provided under subsection (i). If the Administrator promulgates a standard under subsection (d) that would be applicable to the source in lieu of the emission limitation established by permit under this subsection after the date on which the permit has been issued, the Administrator (or the State) shall revise such permit upon the next renewal to reflect the standard promulgated by the Administrator providing such source a reasonable time to comply, but no longer than 8 years after such standard is promulgated or 8 years after the date on which the source is first required to comply with the emissions limitation established by paragraph (5), whichever is earlier.

(k) **AREA SOURCE PROGRAM.**—

(1) **FINDINGS AND PURPOSE.**—The Congress finds that emissions of hazardous air pollutants from area sources may individually, or in the aggregate, present significant risks to public health in urban areas. Considering the large number of persons exposed and the risks of carcinogenic and other adverse health effects from hazardous air pollutants,

ambient concentrations characteristic of large urban areas should be reduced to levels substantially below those currently experienced. It is the purpose of this subsection to achieve a substantial reduction in emissions of hazardous air pollutants from area sources and an equivalent reduction in the public health risks associated with such sources including a reduction of not less than 75 per centum in the incidence of cancer attributable to emissions from such sources.

(2) RESEARCH PROGRAM.—The Administrator shall, after consultation with State and local air pollution control officials, conduct a program of research with respect to sources of hazardous air pollutants in urban areas and shall include within such program—

(A) ambient monitoring for a broad range of hazardous air pollutants (including, but not limited to, volatile organic compounds, metals, pesticides and products of incomplete combustion) in a representative number of urban locations;

(B) analysis to characterize the sources of such pollution with a focus on area sources and the contribution that such sources make to public health risks from hazardous air pollutants; and

(C) consideration of atmospheric transformation and other factors which can elevate public health risks from such pollutants.

Health effects considered under this program shall include, but not be limited to, carcinogenicity, mutagenicity, teratogenicity, neurotoxicity, reproductive dysfunction and other acute and chronic effects including the role of such pollutants as precursors of ozone or acid aerosol formation. The Administrator shall report the preliminary results of such research not later than 3 years after the date of enactment of the Clean Air Act Amendments of 1990.

(3) NATIONAL STRATEGY.—

(A) Considering information collected pursuant to the monitoring program authorized by paragraph (2), the Administrator shall, not later than 5 years after the date of enactment of the Clean Air Act Amendments of 1990 and after notice and opportunity for public comment, prepare and transmit to the Congress a comprehensive strategy to control emissions of hazardous air pollutants from area sources in urban areas.

(B) The strategy shall—

(i) identify not less than 30 hazardous air pollutants which, as the result of emissions from area sources, present the greatest threat to public health in the largest number of urban areas and that are or will be listed pursuant to subsection (b), and

(ii) identify the source categories or subcategories emitting such pollutants that are or will be listed pursuant to subsection (c). When identifying categories and subcategories of sources under this subparagraph, the Administrator shall assure that sources accounting for 90 per centum or more of the aggregate

emissions of each of the 30 identified hazardous air pollutants are subject to standards pursuant to subsection (d).

(C) The strategy shall include a schedule of specific actions to substantially reduce the public health risks posed by the release of hazardous air pollutants from area sources that will be implemented by the Administrator under the authority of this or other laws (including, but not limited to, the Toxic Substances Control Act, the Federal Insecticide, Fungicide and Rodenticide Act and the Resource Conservation and Recovery Act) or by the States. The strategy shall achieve a reduction in the incidence of cancer attributable to exposure to hazardous air pollutants emitted by stationary sources of not less than 75 per centum, considering control of emissions of hazardous air pollutants from all stationary sources and resulting from measures implemented by the Administrator or by the States under this or other laws.

(D) The strategy may also identify research needs in monitoring, analytical methodology, modeling or pollution control techniques and recommendations for changes in law that would further the goals and objectives of this subsection.

(E) Nothing in this subsection shall be interpreted to preclude or delay implementation of actions with respect to area sources of hazardous air pollutants under consideration pursuant to this or any other law and that may be promulgated before the strategy is prepared.

(F) The Administrator shall implement the strategy as expeditiously as practicable assuring that all sources are in compliance with all requirements not later than 9 years after the date of enactment of then Clean Air Act Amendments of 1990.

(G) As part of such strategy the Administrator shall provide for ambient monitoring and emissions modeling in urban areas as appropriate to demonstrate that the goals and objectives of the strategy are being met.

(4) AREAWIDE ACTIVITIES.—In addition to the national urban air toxics strategy authorized by paragraph (3), the Administrator shall also encourage and support areawide strategies developed by State or local air pollution control agencies that are intended to reduce risks from emissions by area sources within a particular urban area. From the funds available for grants under this section, the Administrator shall set aside not less than 10 per centum to support areawide strategies addressing hazardous air pollutants emitted by area sources and shall award such funds on a demonstration basis to those States with innovative and effective strategies. At the request of State or local air pollution control officials, the Administrator shall prepare guidelines for control technologies or management practices which may be applicable to various categories or subcategories of area sources.

(5) **REPORT.**—The Administrator shall report to the Congress at intervals not later than 8 and 12 years after the date of enactment of the Clean Air Act Amendments of 1990 on actions taken under this subsection and other parts of this Act to reduce the risk to public health posed by the release of hazardous air pollutants from area sources. The reports shall also identify specific metropolitan areas that continue to experience high risks to public health as the result of emissions from area sources.

(1) **STATE PROGRAMS.**—

(1) **IN GENERAL.**—Each State may develop and submit to the Administrator for approval a program for the implementation and enforcement (including a review of enforcement delegations previously granted) of emission standards and other requirements for air pollutants subject to this section or requirements for the prevention and mitigation of accidental releases pursuant to subsection (r). A program submitted by a State under this subsection may provide for partial or complete delegation of the Administrator's authorities and responsibilities to implement and enforce emissions standards and prevention requirements but shall not include authority to set standards less stringent than those promulgated by the Administrator under this Act.

(2) **GUIDANCE.**—Not later than 12 months after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall publish guidance that would be useful to the States in developing programs for submittal under this subsection. The guidance shall also provide for the registration of all facilities producing, processing, handling or storing any substance listed pursuant to subsection (r) in amounts greater than the threshold quantity. The Administrator shall include as an element in such guidance an optional program begun in 1986 for the review of high-risk point sources of air pollutants including, but not limited to, hazardous air pollutants listed pursuant to subsection (b).

(3) **TECHNICAL ASSISTANCE.**—The Administrator shall establish and maintain an air toxics clearinghouse and center to provide technical information and assistance to State and local agencies and, on a cost recovery basis, to others on control technology, health and ecological risk assessment, risk analysis, ambient monitoring and modeling, and emissions measurement and monitoring. The Administrator shall use the authority of section 103 to examine methods for preventing, measuring, and controlling emissions and evaluating associated health and ecological risks. Where appropriate, such activity shall be conducted with not-for-profit organizations. The Administrator may conduct research on methods for preventing, measuring and controlling emissions and evaluating associated health and environment risks. All information collected under this paragraph shall be available to the public.

(4) **GRANTS.**—Upon application of a State, the Administrator may make grants, subject to such terms and conditions as the Administrator deems appropriate, to such State for the purpose of assisting the State in developing and implementing a program for submittal and approval under this subsection. Programs assisted under this paragraph may

include program elements addressing air pollutants or extremely hazardous substances other than those specifically subject to this section. Grants under this paragraph may include support for high-risk point source review as provided in paragraph (2) and support for the development and implementation of areawide area source programs pursuant to subsection (k).

(5) **APPROVAL OR DISAPPROVAL.**—Not later than 180 days after receiving a program submitted by a State, and after notice and opportunity for public comment, the Administrator shall either approve or disapprove such program. The Administrator shall disapprove any program submitted by a State, if the Administrator determines that—

(A) the authorities contained in the program are not adequate to assure compliance by all sources within the State with each applicable standard, regulation or requirement established by the Administrator under this section;

(B) adequate authority does not exist, or adequate resources are not available, to implement the program;

(C) the schedule for implementing the program and assuring compliance by affected sources is not sufficiently expeditious; or

(D) the program is otherwise not in compliance with the guidance issued by the Administrator under paragraph (2) or is not likely to satisfy, in whole or in part, the objectives of this Act.

If the Administrator disapproves a State program, the Administrator shall notify the State of any revisions or modifications necessary to obtain approval. The State may revise and resubmit the proposed program for review and approval pursuant to the provisions of this subsection.

(6) **WITHDRAWAL.**—Whenever the Administrator determines, after public hearing, that a State is not administering and enforcing a program approved pursuant to this subsection in accordance with the guidance published pursuant to paragraph (2) or the requirements of paragraph (5), the Administrator shall so notify the State and, if action which will assure prompt compliance is not taken within 90 days, the Administrator shall withdraw approval of the program. The Administrator shall not withdraw approval of any program unless the State shall have been notified and the reasons for withdrawal shall have been stated in writing and made public.

(7) **AUTHORITY TO ENFORCE.**—Nothing in this subsection shall prohibit the Administrator from enforcing any applicable emission standard or requirement under this section.

(8) **LOCAL PROGRAM.**—The Administrator may, after notice and opportunity for public comment, approve a program developed and submitted by a local air pollution control agency (after consultation with the State) pursuant to this subsection and any such agency implementing

an approved program may take any action authorized to be taken by a State under this section.

(9) PERMIT AUTHORITY.—Nothing in this subsection shall affect the authorities and obligations of the Administrator or the State under title V.

(m) ATMOSPHERIC DEPOSITION TO GREAT LAKES AND COASTAL WATERS.—

(1) DEPOSITION ASSESSMENT.—The Administrator, in cooperation with the Under Secretary of Commerce for Oceans and Atmosphere, shall conduct a program to identify and assess the extent of atmospheric deposition of hazardous air pollutants (and in the discretion of the Administrator, other air pollutants) to the Great Lakes, the Chesapeake Bay, Lake Champlain and coastal waters. As part of such program, the Administrator shall—

(A) monitor the Great Lakes, the Chesapeake Bay, Lake Champlain and coastal waters, including monitoring of the Great Lakes through the monitoring network established pursuant to paragraph (2) of this subsection and designing and deploying an atmospheric monitoring network for coastal waters pursuant to paragraph (4);

(B) investigate the sources and deposition rates of atmospheric deposition of air pollutants (and their atmospheric transformation precursors);

(C) conduct research to develop and improve monitoring methods and to determine the relative contribution of atmospheric pollutants to total pollution loadings to the Great Lakes, the Chesapeake Bay, Lake Champlain, and coastal waters;

(D) evaluate any adverse effects to public health or the environment caused by such deposition (including effects resulting from indirect exposure pathways) and assess the contribution of such deposition to violations of water quality standards established pursuant to the Federal Water Pollution Control Act and drinking water standards established pursuant to the Safe Drinking Water Act; and

(E) sample for such pollutants in biota, fish, and wildlife of the Great Lakes, the Chesapeake Bay, Lake Champlain and coastal waters and characterize the sources of such pollutants.

(2) GREAT LAKES MONITORING NETWORK.—The Administrator shall oversee, in accordance with Annex 15 of the Great Lakes Water Quality Agreement, the establishment and operation of a Great Lakes atmospheric deposition network to monitor atmospheric deposition of hazardous air pollutants (and in the Administrator's discretion, other air pollutants) to the Great Lakes.

(A) As part of the network provided for in this paragraph, and not later than December 31, 1991, the Administrator shall establish in each of the 5 Great Lakes at least 1 facility capable of monitoring the atmospheric deposition of hazardous air pollutants in both dry and wet conditions.

(B) the Administrator shall use the data provided by the network to identify and track the movement of hazardous air pollutants through the Great Lakes, to determine the portion of water pollution loadings attributable to atmospheric deposition of such pollutants, and to support development of remedial action plans and other management plans as required by the Great Lakes Water Quality Agreement.

(C) The Administrator shall assure that the data collected by the Great Lakes atmospheric deposition monitoring network is in a format compatible with databases sponsored by the International Joint Commission, Canada, and the several States of the Great Lakes region.

(3) MONITORING FOR THE CHESAPEAKE BAY AND LAKE CHAMPLAIN.—The Administrator shall establish at the Chesapeake Bay and Lake Champlain atmospheric deposition stations to monitor deposition of hazardous air pollutants (and in the Administrator's discretion, other air pollutants) within the Chesapeake Bay and Lake Champlain watersheds. The Administrator shall determine the role of air deposition in the pollutant loadings of the Chesapeake Bay and Lake Champlain, investigate the sources of air pollutants deposited in the watersheds, evaluate the health and environmental effects of such pollutant loadings, and shall sample such pollutants in biota, fish and wildlife within the watersheds, as necessary to characterize such effects.

(4) MONITORING FOR COASTAL WATERS.—The Administrator shall design and deploy atmospheric deposition monitoring networks for coastal waters and their watersheds and shall make any information collected through such networks available to the public. As part of this effort, the Administrator shall conduct research to develop and improve deposition monitoring methods, and to determine the relative contribution of atmospheric pollutants to pollutant loadings. For purposes of this subsection, "coastal waters" shall mean estuaries selected pursuant to section 320(a)(2)(A) of the Federal Water Pollution Control Act or listed pursuant to section 320(a)(2)(B) of such Act or estuarine research reserves designated pursuant to section 315 of the Coastal Zone Management Act (16 U.S.C. 1461).

(5) REPORT.—Within 3 years of the date of enactment of the Clean Air Act Amendments of 1990 and biennially thereafter, the Administrator, in cooperation with the Under Secretary of Commerce for Oceans and Atmosphere, shall submit to the Congress a report on the results of any monitoring, studies, and investigations conducted pursuant to this subsection. Such report shall include, at a minimum, an assessment of—

(A) the contribution of atmospheric deposition to pollution loadings in the Great Lakes, the Chesapeake Bay, Lake Champlain and coastal waters;

(B) the environmental and public health effects of any pollution which is attributable to atmospheric deposition to the Great Lakes, the Chesapeake Bay, Lake Champlain and coastal waters;

(C) the source or sources of any pollution to the Great Lakes, the Chesapeake Bay, Lake Champlain and coastal waters which is attributable to atmospheric deposition;

(D) whether pollution loadings in the Great Lakes, the Chesapeake Bay, Lake Champlain or coastal waters cause or contribute to exceedances of drinking water standards pursuant to the Safe Drinking Water Act or water quality standards pursuant to the Federal Water Pollution Control Act or, with respect to the Great Lakes, exceedances of the specific objectives of the Great Lakes Water Quality Agreement; and

(E) a description of any revisions of the requirements, standards, and limitations pursuant to this Act and other applicable Federal laws as are necessary to assure protection of human health and the environment.

(6) ADDITIONAL REGULATION.—As part of the report to Congress, the Administrator shall determine whether the other provisions of this section are adequate to prevent serious adverse effects to public health and serious or widespread environmental effects, including such effects resulting from indirect exposure pathways, associated with atmospheric deposition to the Great Lakes, the Chesapeake Bay, Lake Champlain and coastal waters of hazardous air pollutants (and their atmospheric transformation products). The Administrator shall take into consideration the tendency of such pollutants to bioaccumulate. Within 5 years after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall, based on such report and determination, promulgate, in accordance with this section, such further emission standards or control measures as may be necessary and appropriate to prevent such effects, including effects due to bioaccumulation and indirect exposure pathways. Any requirements promulgated pursuant to this paragraph with respect to coastal waters shall only apply to the coastal waters of the States which are subject to section 328(a).

(n) OTHER PROVISIONS.

(1) ELECTRIC UTILITY STEAM GENERATING UNITS.—

(A) The Administrator shall perform a study of the hazards to public health reasonably anticipated to occur as a result of emissions by electric utility steam generating units of pollutants listed under subsection (b) after imposition of the requirements of this Act. The Administrator shall report the results of this study to the Congress within 3 years after the date of the enactment of the Clean Air Act Amendments of 1990. The Administrator shall develop and describe in the Administrator's report to Congress alternative control strategies for emissions which may warrant regulation under this section. The Administrator shall regulate electric utility steam generating

units under this section, if the Administrator finds such regulation is appropriate and necessary after considering the results of the study required by this subparagraph.

(B) The Administrator shall conduct, and transmit to the Congress not later than 4 years after the date of enactment of the Clean Air Act Amendments of 1990, a study of mercury emissions from electric utility steam generating units, municipal waste combustion units, and other sources, including area sources. Such study shall consider the rate and mass of such emissions, the health and environmental effects of such emissions, technologies which are available to control such emissions, and the costs of such technologies.

(C) The National Institute of Environmental Health Sciences shall conduct, and transmit to the Congress not later than 3 years after the date of enactment of the Clean Air Act Amendments of 1990, a study to determine the threshold level of mercury exposure below which adverse human health effects are not expected to occur. Such study shall include a threshold for mercury concentrations in the tissue of fish which may be consumed (including consumption by sensitive populations) without adverse effects to public health.

(2) COKE OVEN PRODUCTION TECHNOLOGY STUDY.—

(A) The Secretary of the Department of Energy and the Administrator shall jointly undertake a 6-year study to assess coke oven production emission control technologies and to assist in the development and commercialization of technically practicable and economically viable control technologies which have the potential to significantly reduce emissions of hazardous air pollutants from coke oven production facilities. In identifying control technologies, the Secretary and the Administrator shall consider the range of existing coke oven operations and battery design and the availability of sources of materials for such coke ovens as well as alternatives to existing coke oven production design.

(B) The Secretary and the Administrator are authorized to enter into agreements with persons who propose to develop, install and operate coke production emission control technologies which have the potential for significant emissions reductions of hazardous air pollutants provided that Federal funds shall not exceed 50 per centum of the cost of any project assisted pursuant to this paragraph.

(C) The Secretary shall prepare annual reports to Congress on the status of the research program and at the completion of the study shall make recommendations to the Administrator identifying practicable and economically viable control technologies for coke oven production facilities to reduce residual risks remaining after implementation of the standard under subsection (d).

(D) There are authorized to be appropriated \$5,000,000 for each of the fiscal years 1992 through 1997 to carry out the program authorized by this paragraph.

(3) **PUBLICLY OWNED TREATMENT WORKS.**—The Administrator may conduct, in cooperation with the owners and operators of publicly owned treatment works, studies to characterize emissions of hazardous air pollutants emitted by such facilities, to identify industrial, commercial and residential discharges that contribute to such emissions and to demonstrate control measures for such emissions. When promulgating any standard under this section applicable to publicly owned treatment works, the Administrator may provide for control measures that include pretreatment of discharges causing emissions of hazardous air pollutants and process or product substitutions or limitations that may be effective in reducing such emissions. The Administrator may prescribe uniform sampling, modeling and risk assessment methods for use in implementing this subsection.

(4) **OIL AND GAS WELLS; PIPELINE FACILITIES.**—

(A) Notwithstanding the provisions of subsection (a), emissions from any oil or gas exploration or production well (with its associated equipment) and emissions from any pipeline compressor or pump station shall not be aggregated with emissions from other similar units, whether or not such units are in a contiguous area or under common control, to determine whether such units or stations are major sources, and in the case of any oil or gas exploration or production well (with its associated equipment), such emissions shall not be aggregated for any purpose under this section.

(B) The Administrator shall not list oil and gas production wells (with its associated equipment) as an area source category under subsection (c), except that the Administrator may establish an area source category for oil and gas production wells located in any metropolitan statistical area or consolidated metropolitan statistical area with a population in excess of 1 million, if the Administrator determines that emissions of hazardous air pollutants from such wells present more than a negligible risk of adverse effects to public health.

(5) **HYDROGEN SULFIDE.**—The Administrator is directed to assess the hazards to public health and the environment resulting from the emission of hydrogen sulfide associated with the extraction of oil and natural gas resources. To the extent practicable, the assessment shall build upon and not duplicate work conducted for an assessment pursuant to section 8002(m) of the Solid Waste Disposal Act and shall reflect consultation with the States. The assessment shall include a review of existing State and industry control standards, techniques and enforcement. The Administrator shall report to the Congress within 24 months after the date of enactment of the Clean Air Act Amendments of 1990 with the findings of such assessment, together with any recommendations, and shall, as appropriate, develop and implement a control strategy for emissions of

hydrogen sulfide to protect human health and the environment, based on the findings of such assessment, using authorities under this Act including sections 111 and this section.

(6) **HYDROFLUORIC ACID.**—Not later than 2 years after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall, for those regions of the country which do not have comprehensive health and safety regulations with respect to hydrofluoric acid, complete a study of the potential hazards of hydrofluoric acid and the uses of hydrofluoric acid in industrial and commercial applications to public health and the environment considering a range of events including worst-case accidental releases and shall make recommendations to the Congress for the reduction of such hazards, if appropriate.

(7) **RCRA FACILITIES.**—In the case of any category or subcategory of sources the air emissions of which are regulated under subtitle C of the Solid Waste Disposal Act, the Administrator shall take into account any regulations of such emissions which are promulgated under such subtitle and shall, to the maximum extent practicable and consistent with the provisions of this section, ensure that the requirements of such subtitle and this section are consistent.

(o) **NATIONAL ACADEMY OF SCIENCES STUDY.**—

(1) **REQUEST OF THE ACADEMY.**—Within 3 months of the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall enter into appropriate arrangements with the National Academy of Sciences to conduct a review of—

(A) risk assessment methodology used by the Environmental Protection Agency to determine the carcinogenic risk associated with exposure to hazardous air pollutants from source categories and subcategories subject to the requirements of this section; and

(B) improvements in such methodology.

(2) **ELEMENTS TO BE STUDIED.**—In conducting such review, the National Academy of Sciences should consider, but not be limited to, the following—

(A) the techniques used for estimating and describing the carcinogenic potency to humans of hazardous air pollutants; and

(B) the techniques used for estimating exposure to hazardous air pollutants (for hypothetical and actual maximally exposed individuals as well as other exposed individuals).

(3) **OTHER HEALTH EFFECTS OF CONCERN.**—To the extent practicable, the Academy shall evaluate and report on the methodology for assessing the risk of adverse human health effects other than cancer for which safe thresholds of exposure may not exist, including, but not limited to, inheritable genetic mutations, birth defects, and reproductive dysfunctions.

(4) **REPORT.**—A report on the results of such review shall be submitted to the Senate Committee on Environment and Public Works, the House Committee on Energy and Commerce, the Risk Assessment and Management Commission established by section 303 of the Clean Air Act Amendments of 1990 and the Administrator not later than 30 months after the date of enactment of the Clean Air Act Amendments of 1990.

(5) **ASSISTANCE.**—The Administrator shall assist the Academy in gathering any information the Academy deems necessary to carry out this subsection. The Administrator may use any authority under this Act to obtain information from any person, and to require any person to conduct tests, keep and produce records, and make reports respecting research or other activities conducted by such person as necessary to carry out this subsection.

(6) **AUTHORIZATION.**—Of the funds authorized to be appropriated to the Administrator by this Act, such amounts as are required shall be available to carry out this subsection.

(7) **GUIDELINES FOR CARCINOGENIC RISK ASSESSMENT.**—The Administrator shall consider, but need not adopt, the recommendations contained in the report of the National Academy of Sciences prepared pursuant to this subsection and the views of the Science Advisory Board, with respect to such report. Prior to the promulgation of any standard under subsection (f), and after notice and opportunity for comment, the Administrator shall publish revised Guidelines for Carcinogenic Risk Assessment or a detailed explanation of the reasons that any recommendations contained in the report of the National Academy of Sciences will not be implemented. The publication of such revised Guidelines shall be a final Agency action for purposes of section 307.

(p) **MICKEY LELAND URBAN AIR TOXICS RESEARCH CENTER.**—

(1) **ESTABLISHMENT.**—The Administrator shall oversee the establishment of a National Urban Air Toxics Research Center, to be located at a university, a hospital, or other facility capable of undertaking and maintaining similar research capabilities in the areas of epidemiology, oncology, toxicology, pulmonary medicine, pathology, and biostatistics. The center shall be known as the Mickey Leland National Urban Air Toxics Research Center. The geographic site of the National Urban Air Toxics Research Center should be further directed to Harris County, Texas, in order to take full advantage of the well developed scientific community presence on-site at the Texas Medical Center as well as the extensive data previously compiled for the comprehensive monitoring system currently in place.

(2) **BOARD OF DIRECTORS.**—The National Urban Air Toxics Research Center shall be governed by a Board of Directors to be comprised of 9 members, the appointment of which shall be allocated pro rata among the Speaker of the House, the Majority Leader of the Senate and the President. The members of the Board of Directors shall be selected based on their respective academic and professional backgrounds and expertise in

matters relating to public health, environmental pollution and industrial hygiene. The duties of the Board of Directors shall be to determine policy and research guidelines, submit views from center sponsors and the public and issue periodic reports of center findings and activities.

(3) **SCIENTIFIC ADVISORY PANEL.**—The Board of Directors shall be advised by a Scientific Advisory Panel, the 13 members of which shall be appointed by the Board, and to include eminent members of the scientific and medical communities. The Panel membership may include scientists with relevant experience from the National Institute of Environmental Health Sciences, the Center for Disease Control, the Environmental Protection Agency, the National Cancer Institute, and others, and the Panel shall conduct peer review and evaluate research results. The Panel shall assist the Board in developing the research agenda, reviewing proposals and applications, and advise on the awarding of research grants.

(4) **FUNDING.**—The center shall be established and funded with both Federal and private source funds.

(q) **SAVINGS PROVISION.**—

(1) **STANDARDS PREVIOUSLY PROMULGATED.**—Any standard under this section in effect before the date of enactment of the Clean Air Act Amendments of 1990 shall remain in force and effect after such date unless modified as provided in this section before the date of enactment of such Amendments or under such Amendments. Except as provided in paragraph (4), any standard under this section which has been promulgated, but has not taken effect, before such date shall not be affected by such Amendments unless modified as provided in this section before such date or under such Amendments. Each such standard shall be reviewed and, if appropriate, revised, to comply with the requirements of subsection (d) within 10 years after the date of enactment of the Clean Air Act Amendments of 1990. If a timely petition for review of any such standard under section 307 is pending on such date of enactment, the standard shall be upheld if it complies with this section as in effect before that date. If any such standard is remanded to the Administrator, the Administrator may in the Administrator's discretion apply either the requirements of this section, or those of this section as in effect before the date of enactment of the Clean Air Act Amendments of 1990.

(2) **SPECIAL RULE.**—Notwithstanding paragraph (1), no standard shall be established under this section, as amended by the Clean Air Act Amendments of 1990, for radionuclide emissions from (A) elemental phosphorous plants, (B) grate calcination elemental phosphorous plants, (C) phosphogypsum stacks, or (D) any subcategory of the foregoing. This section, as in effect prior to the date of enactment of the Clean Air Act Amendments of 1990, shall remain in effect for radionuclide emissions from such plants and stacks.

(3) **OTHER CATEGORIES.**—Notwithstanding paragraph (1), this section, as in effect prior to the date of enactment of the Clean Air Act

Amendments of 1990, shall remain in effect for radionuclide emissions from non-Department of Energy Federal facilities that are not licensed by the Nuclear Regulatory Commission, coal-fired utility and industrial boilers, underground uranium mines, surface uranium mines, and disposal of uranium mill tailings piles, unless the Administrator, in the Administrator's discretion, applies the requirements of this section as modified by the Clean Air Act Amendments of 1990 to such sources of radionuclides.

(4) **MEDICAL FACILITIES.**—Notwithstanding paragraph (1), no standard promulgated under this section prior to the date of enactment of the Clean Air Act Amendments of 1990 with respect to medical research or treatment facilities shall take effect for two years following the date of enactment of the Clean Air Act Amendments of 1990, unless the Administrator makes a determination pursuant to a rulemaking under section 112(d)(9). If the Administrator determines that the regulatory program established by the Nuclear Regulatory Commission for such facilities does not provide an ample margin of safety to protect public health, the requirements of section 112 shall fully apply to such facilities. If the Administrator determines that such regulatory program does provide an ample margin of safety to protect the public health, the Administrator is not required to promulgate a standard under this section for such facilities, as provided in section 112(d)(9).

(r) **PREVENTION OF ACCIDENTAL RELEASES.**—

(1) **PURPOSE AND GENERAL DUTY.**—It shall be the objective of the regulations and programs authorized under this subsection to prevent the accidental release and to minimize the consequences of any such release of any substance listed pursuant to paragraph (3) or any other extremely hazardous substance. The owners and operators of stationary sources producing, processing, handling or storing such substances have a general duty in the same manner and to the same extent as section 654, title 29 of the United States Code, to identify hazards which may result from such releases using appropriate hazard assessment techniques, to design and maintain a safe facility taking such steps as are necessary to prevent releases, and to minimize the consequences of accidental releases which do occur. For purposes of this paragraph, the provisions of section 304 shall not be available to any person or otherwise be construed to be applicable to this paragraph. Nothing in this section shall be interpreted, construed, implied or applied to create any liability or basis for suit for compensation for bodily injury or any other injury or property damages to any person which may result from accidental releases of such substances.

(2) **DEFINITIONS.**—

(A) The term “accidental release” means an unanticipated emission of a regulated substance or other extremely hazardous substance into the ambient air from a stationary source.

(B) The term “regulated substance” means a substance listed under paragraph (3).

(C) The term "stationary source" means any buildings, structures, equipment, installations or substance emitting stationary activities (i) which belong to the same industrial group, (ii) which are located on one or more contiguous properties, (iii) which are under the control of the same person (or persons under common control), and (iv) from which an accidental release may occur.

(3) LIST OF SUBSTANCES.—The Administrator shall promulgate not later than 24 months after enactment of the Clean Air Act Amendments of 1990 an initial list of 100 substances which, in the case of an accidental release, are known to cause or may reasonably be anticipated to cause death, injury, or serious adverse effects to human health or the environment. For purposes of promulgating such list, the Administrator shall use, but is not limited to, the list of extremely hazardous substances published under the Emergency Planning and Community Right-to-Know Act of 1986, with such modifications as the Administrator deems appropriate. The initial list shall include chlorine, anhydrous ammonia, methyl chloride, ethylene oxide, vinyl chloride, methyl isocyanate, hydrogen cyanide, ammonia, hydrogen sulfide, toluene diisocyanate, phosgene, bromine, anhydrous hydrogen chloride, hydrogen fluoride, anhydrous sulfur dioxide, and sulfur trioxide. The initial list shall include at least 100 substances which pose the greatest risk of causing death, injury, or serious adverse effects to human health or the environment from accidental releases. Regulations establishing the list shall include an explanation of the basis for establishing the list. The list may be revised from time to time by the Administrator on the Administrator's own motion or by petition and shall be reviewed at least every 5 years. No air pollutant for which a national primary ambient air quality standard has been established shall be included on any such list. No substance, practice, process, or activity regulated under title VI shall be subject to regulations under this subsection. The Administrator shall establish procedures for the addition and deletion of substances from the list established under this paragraph consistent with those applicable to the list in subsection (b).

(4) FACTORS TO BE CONSIDERED.—In listing substances under paragraph (3), the Administrator shall consider each of the following criteria—

(A) the severity of any acute adverse health effects associated with accidental releases of the substance;

(B) the likelihood of accidental releases of the substance; and

(C) the potential magnitude of human exposure to accidental releases of the substance.

(5) THRESHOLD QUANTITY.—At the time any substance is listed pursuant to paragraph (3), the Administrator shall establish by rule, a threshold quantity for the substance, taking into account the toxicity, reactivity, volatility, dispersibility, combustibility, or flammability of the substance and the amount of the substance which, as a result of an accidental release, is known to cause or may reasonably be anticipated to

cause death, injury or serious adverse effects to human health for which the substance was listed. The Administrator is authorized to establish a greater threshold quantity for, or to exempt entirely, any substance that is a nutrient used in agriculture when held by a farmer.

(6) CHEMICAL SAFETY BOARD.—

(A) There is hereby established an independent safety board to be known as the Chemical Safety and Hazard Investigation Board.

(B) The Board shall consist of 5 members, including a Chairperson, who shall be appointed by the President, by and with the advice and consent of the Senate. Members of the Board shall be appointed on the basis of technical qualification, professional standing, and demonstrated knowledge in the fields of accident reconstruction, safety engineering, human factors, toxicology, or air pollution regulation. The terms of office of members of the Board shall be 5 years. Any member of the Board, including the Chairperson, may be removed for inefficiency, neglect of duty, or malfeasance in office. The Chairperson shall be the Chief Executive Officer of the Board and shall exercise the executive and administrative functions of the Board.

(C) The Board shall—

(i) investigate (or cause to be investigated), determine and report to the public in writing the facts, conditions, and circumstances and the cause or probable cause of any accidental release resulting in a fatality, serious injury or substantial property damages;

(ii) issue periodic reports to the Congress, Federal, State and local agencies, including the Environmental Protection Agency and the Occupational Safety and Health Administration, concerned with the safety of chemical production, processing, handling and storage, and other interested persons recommending measures to reduce the likelihood or the consequences of accidental releases and proposing corrective steps to make chemical production, processing, handling and storage as safe and free from risk of injury as is possible and may include in such reports proposed rules or orders which should be issued by the Administrator under the authority of this section or the Secretary of Labor under the Occupational Safety and Health Act to prevent or minimize the consequences of any release of substances that may cause death, injury or other serious adverse effects on human health or substantial property damage as the result of an accidental release; and

(iii) establish by regulation requirements binding on persons for reporting accidental releases into the ambient air subject to the Board's investigatory jurisdiction. Reporting releases to the National Response Center, in lieu of the Board directly, shall satisfy such regulations. The National Response

Center shall promptly notify the Board of any releases which are within the Board's jurisdiction.

(D) The Board may utilize the expertise and experience of other agencies.

(E) The Board shall coordinate its activities with investigations and studies conducted by other agencies of the United States having a responsibility to protect public health and safety. The Board shall enter into a memorandum of understanding with the National Transportation Safety Board to assure coordination of functions and to limit duplication of activities which shall designate the National Transportation Safety Board as the lead agency for the investigation of releases which are transportation related. The Board shall not be authorized to investigate marine oil spills, which the National Transportation Safety Board is authorized to investigate. The Board shall enter into a memorandum of understanding with the Occupational Safety and Health Administration so as to limit duplication of activities. In no event shall the Board forego an investigation where an accidental release causes a fatality or serious injury among the general public, or had the potential to cause substantial property damage or a number of deaths or injuries among the general public.

(F) The Board is authorized to conduct research and studies with respect to the potential for accidental releases, whether or not an accidental release has occurred, where there is evidence which indicates the presence of a potential hazard or hazards. To the extent practicable, the Board shall conduct such studies in cooperation with other Federal agencies having emergency response authorities, State and local governmental agencies and associations and organizations from the industrial, commercial, and nonprofit sectors.

(G) No part of the conclusions, findings, or recommendations of the Board relating to any accidental release or the investigation thereof shall be admitted as evidence or used in any action or suit for damages arising out of any matter mentioned in such report.

(H) Not later than 18 months after the date of enactment of the Clean Air Act Amendments of 1990, the Board shall publish a report accompanied by recommendations to the Administrator on the use of hazard assessments in preventing the occurrence and minimizing the consequences of accidental releases of extremely hazardous substances. The recommendations shall include a list of extremely hazardous substances which are not regulated substances (including threshold quantities for such substances) and categories of stationary sources for which hazard assessments would be an appropriate measure to aid in the prevention of accidental releases and to minimize the consequences of those releases that do occur. The recommendations shall also include a description of the information and analysis which would be appropriate to include in any hazard assessment. The Board shall also make recommendations with respect to the role of risk management plans as required by paragraph (8)(B) in

preventing accidental releases. The Board may from time to time review and revise its recommendations under this subparagraph.

(I) Whenever the Board submits a recommendation with respect to accidental releases to the Administrator, the Administrator shall respond to such recommendation formally and in writing not later than 180 days after receipt thereof. The response to the Board's recommendation by the Administrator shall indicate whether the Administrator will—

(i) initiate a rulemaking or issue such orders as are necessary to implement the recommendation in full or in part, pursuant to any timetable contained in the recommendation;

(ii) decline to initiate a rulemaking or issue orders as recommended.

Any determination by the Administrator not to implement a recommendation of the Board or to implement a recommendation only in part, including any variation from the schedule contained in the recommendation, shall be accompanied by a statement from the Administrator setting forth the reasons for such determination.

(J) The Board may make recommendations with respect to accidental releases to the Secretary of Labor. Whenever the Board submits such recommendation, the Secretary shall respond to such recommendation formally and in writing not later than 180 days after receipt thereof. The response to the Board's recommendation by the Administrator shall indicate whether the Secretary will—

(i) initiate a rulemaking or issue such orders as are necessary to implement the recommendation in full or in part, pursuant to any timetable contained in the recommendation;

(ii) decline to initiate a rulemaking or issue orders as recommended.

Any determination by the Secretary not to implement a recommendation or to implement a recommendation only in part, including any variation from the schedule contained in the recommendation, shall be accompanied by a statement from the Secretary setting forth the reasons for such determination.

(K) Within 2 years after enactment of the Clean Air Act Amendments of 1990, the Board shall issue a report to the Administrator of the Environmental Protection Agency and to the Administrator of the Occupational Safety and Health Administration recommending the adoption of regulations for the preparation of risk management plans and general requirements for the prevention of accidental releases of regulated substances into the ambient air (including recommendations for listing substances under paragraph (3)) and for the mitigation of the potential adverse effect on human health or the environment as a result of accidental releases which should be applicable to any stationary source handling any regulated

substance in more than threshold amounts. The Board may include proposed rules or orders which should be issued by the Administrator under authority of this subsection or by the Secretary of Labor under the Occupational Safety and Health Act. Any such recommendations shall be specific and shall identify the regulated substance or class of regulated substances (or other substances) to which the recommendations apply. The Administrator shall consider such recommendations before promulgating regulations required by subparagraph (7)(B).

(L) The Board, or upon authority of the Board, any member thereof, any administrative law judge employed by or assigned to the Board, or any officer or employee duly designated by the Board, may for the purpose of carrying out duties authorized by paragraph (C)—

(i) hold such hearings, sit and act at such times and places, administer such oaths, and require by subpoena or otherwise attendance and testimony of such witnesses and the production of evidence and may require by order that any person engaged in the production, processing, handling, or storage of extremely hazardous substances submit written reports and responses to requests and questions within such time and in such form as the Board may require; and

(ii) upon presenting appropriate credentials and a written notice of inspection authority, enter any property where an accidental release causing a fatality, serious injury or substantial property damage has occurred and do all things therein necessary for a proper investigation pursuant to subparagraph (C) and inspect at reasonable times records, files, papers, processes, controls, and facilities and take such samples as are relevant to such investigation.

Whenever the Administrator or the Board conducts an inspection of a facility pursuant to this subsection, employees and their representatives shall have the same rights to participate in such inspections as provided in the Occupational Safety and Health Act.

(M) In addition to that described in subparagraph (L), the Board may use any information gathering authority of the Administrator under this Act, including the subpoena power provided in section 307(a)(1) of this Act.

(N) The Board is authorized to establish such procedural and administrative rules as are necessary to the exercise of its functions and duties. The Board is authorized without regard to section 5 of title 41 of the United States Code to enter into contracts, leases, cooperative agreements or other transactions as may be necessary in the conduct of the duties and functions of the Board with any other agency, institution, or person.

(O) After the effective date of any reporting requirement promulgated pursuant to subparagraph (C)(iii) it shall be unlawful for any person to fail to report any release of any extremely hazardous substance as required by such subparagraph. The Administrator is authorized to enforce any regulation or requirements established by the Board pursuant to subparagraph (C)(iii) using the authorities of sections 113 and 114. Any request for information from the owner or operator of a stationary source made by the Board or by the Administrator under this section shall be treated, for purposes of sections 113, 114, 116, 120, 303, 304 and 307 and any other enforcement provisions of this Act, as a request made by the Administrator under section 114 and may be enforced by the Chairperson of the Board or by the Administrator as provided in such section.

(P) The Administrator shall provide to the Board such support and facilities as may be necessary for operation of the Board.

(Q) Consistent with subsection (G) and section 114(c) any records, reports or information obtained by the Board shall be available to the Administrator, the Secretary of Labor, the Congress and the public, except that upon a showing satisfactory to the Board by any person that records, reports, or information, or particular part thereof (other than release or emissions data) to which the Board has access, if made public, is likely to cause substantial harm to the person's competitive position, the Board shall consider such record, report, or information or particular portion thereof confidential in accordance with section 1905 of title 18 of the United States Code, except that such record, report, or information may be disclosed to other officers, employees, and authorized representatives of the United States concerned with carrying out this Act or when relevant under any proceeding under this Act. This subparagraph does not constitute authority to withhold records, reports, or information from the Congress.

(R) Whenever the Board submits or transmits any budget estimate, budget request, supplemental budget request, or other budget information, legislative recommendation, prepared testimony for congressional hearings, recommendation or study to the President, the Secretary of Labor, the Administrator, or the Director of the Office of Management and Budget, it shall concurrently transmit a copy thereof to the Congress. No report of the Board shall be subject to review by the Administrator or any Federal agency or to judicial review in any court. No officer or agency of the United States shall have authority to require the Board to submit its budget requests or estimates, legislative recommendations, prepared testimony, comments, recommendations or reports to any officer or agency of the United States for approval or review prior to the submission of such recommendations, testimony, comments or reports to the Congress. In the performance of their functions as established by this Act, the members, officers and employees of the

Board shall not be responsible to or subject to supervision or direction, in carrying out any duties under this subsection, of any officer or employee or agent of the Environmental Protection Agency, the Department of Labor or any other agency of the United States except that the President may remove any member, officer or employee of the Board for inefficiency, neglect of duty or malfeasance in office. Nothing in this section shall affect the application of title 5, United States Code to officers or employees of the Board.

(S) The Board shall submit an annual report to the President and to the Congress which shall include, but not be limited to, information on accidental releases which have been investigated by or reported to the Board during the previous year, recommendations for legislative or administrative action which the Board has made, the actions which have been taken by the Administrator or the Secretary of Labor or the heads of other agencies to implement such recommendations, an identification of priorities for study and investigation in the succeeding year, progress in the development of risk-reduction technologies and the response to and implementation of significant research findings on chemical safety in the public and private sector.

(7) ACCIDENT PREVENTION.—

(A) In order to prevent accidental releases of regulated substances, the Administrator is authorized to promulgate release prevention, detection, and correction requirements which may include monitoring, record-keeping, reporting, training, vapor recovery, secondary containment, and other design, equipment, work practice, and operational requirements. Regulations promulgated under this paragraph may make distinctions between various types, classes, and kinds of facilities, devices and systems taking into consideration factors including, but not limited to, the size, location, process, process controls, quantity of substances handled, potency of substances, and response capabilities present at any stationary source. Regulations promulgated pursuant to this subparagraph shall have an effective date, as determined by the Administrator, assuring compliance as expeditiously as practicable.

(B)(i) Within 3 years after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate reasonable regulations and appropriate guidance to provide, to the greatest extent practicable, for the prevention and detection of accidental releases of regulated substances and for response to such releases by the owners or operators of the sources of such releases. The Administrator shall utilize the expertise of the Secretaries of Transportation and Labor in promulgating such regulations. As appropriate, such regulations shall cover the use, operation, repair, replacement, and maintenance of equipment to monitor, detect, inspect, and control such releases, including training of persons in the use and maintenance of such equipment and in the conduct of

periodic inspections. The regulations shall include procedures and measures for emergency response after an accidental release of a regulated substance in order to protect human health and the environment. The regulations shall cover storage, as well as operations. The regulations shall, as appropriate, recognize differences in size, operations, processes, class and categories of sources and the voluntary actions of such sources to prevent such releases and respond to such releases. The regulations shall be applicable to a stationary source 3 years after the date of promulgation, or 3 years after the date on which a regulated substance present at the source in more than threshold amounts is first listed under paragraph (3), whichever is later.

(ii) The regulations under this subparagraph shall require the owner or operator of stationary sources at which a regulated substance is present in more than a threshold quantity to prepare and implement a risk management plan to detect and prevent or minimize accidental releases of such substances from the stationary source, and to provide a prompt emergency response to any such releases in order to protect human health and the environment. Such plan shall provide for compliance with the requirements of this subsection and shall also include each of the following:

(I) a hazard assessment to assess the potential effects of an accidental release of any regulated substance. This assessment shall include an estimate of potential release quantities and a determination of downwind effects, including potential exposures to affected populations. Such assessment shall include a previous release history of the past 5 years, including the size, concentration, and duration of releases, and shall include an evaluation of worst case accidental releases;

(II) a program for preventing accidental releases of regulated substances, including safety precautions and maintenance, monitoring and employee training measures to be used at the source; and

(III) a response program providing for specific actions to be taken in response to an accidental release of a regulated substance so as to protect human health and the environment, including procedures for informing the public and local agencies responsible for responding to accidental releases, emergency health care, and employee training measures.

At the time regulations are promulgated under this subparagraph, the Administrator shall promulgate guidelines to assist stationary sources in the preparation of risk management plans. The guidelines shall, to the extent practicable, include model risk management plans.

(iii) The owner or operator of each stationary source covered by clause (ii) shall register a risk management plan prepared under this subparagraph with the Administrator before the effective date of regulations under clause (i) in such form and manner as the Administrator shall, by rule, require. Plans prepared pursuant to this subparagraph shall also be submitted to the Chemical Safety and Hazard Investigation Board, to the State in which the stationary source is located, and to any local agency or entity having responsibility for planning for or responding to accidental releases which may occur at such source, and shall be available to the public under section 114(c). The Administrator shall establish, by rule, an auditing system to regularly review and, if necessary, require revision in risk management plans to assure that the plans comply with this subparagraph. Each such plan shall be updated periodically as required by the Administrator, by rule.

(C) Any regulations promulgated pursuant to this subsection shall to the maximum extent practicable, consistent with this subsection, be consistent with the recommendations and standards established by the American Society of Mechanical Engineers (ASME), the American National Standards Institute (ANSI) or the American Society of Testing Materials (ASTM). The Administrator shall take into consideration the concerns of small business in promulgating regulations under this subsection.

(D) In carrying out the authority of this paragraph, the Administrator shall consult with the Secretary of Labor and the Secretary of Transportation and shall coordinate any requirements under this paragraph with any requirements established for comparable purposes by the Occupational Safety and Health Administration or the Department of Transportation. Nothing in this subsection shall be interpreted, construed or applied to impose requirements affecting, or to grant the Administrator, the Chemical Safety and Hazard Investigation Board, or any other agency any authority to regulate (including requirements for hazard assessment), the accidental release of radionuclides arising from the construction and operation of facilities licensed by the Nuclear Regulatory Commission.

(E) After the effective date of any regulation or requirement imposed under this subsection, it shall be unlawful for any person to operate any stationary source subject to such regulation or requirement in violation of such regulation or requirement. Each regulation or requirement under this subsection shall for purposes of sections 113, 114, 116, 120, 304, and 307 and other enforcement provisions of this Act, be treated as a standard in effect under subsection (d).

(F) Notwithstanding the provisions of title V or this section, no stationary source shall be required to apply for, or operate pursuant to, a permit issued under such title solely because such source is subject to regulations or requirements under this subsection.

(G) In exercising any authority under this subsection, the Administrator shall not, for purposes of section 653(b)(1) of title 29 of the United States Code, be deemed to be exercising statutory authority to prescribe or enforce standards or regulations affecting occupational safety and health.

(8) RESEARCH ON HAZARD ASSESSMENTS.—The Administrator may collect and publish information on accident scenarios and consequences covering a range of possible events for substances listed under paragraph (3). The Administrator shall establish a program of long-term research to develop and disseminate information on methods and techniques for hazard assessment which may be useful in improving and validating the procedures employed in the preparation of hazard assessments under this subsection.

(9) ORDER AUTHORITY.—

(A) In addition to any other action taken, when the Administrator determines that there may be an imminent and substantial endangerment to the human health or welfare or the environment because of an actual or threatened accidental release of a regulated substance, the Administrator may secure such relief as may be necessary to abate such danger or threat, and the district court of the United States in the district in which the threat occurs shall have jurisdiction to grant such relief as the public interest and the equities of the case may require. The Administrator may also, after notice to the State in which the stationary source is located, take other action under this paragraph including, but not limited to, issuing such orders as may be necessary to protect human health. The Administrator shall take action under section 303 rather than this paragraph whenever the authority of such section is adequate to protect human health and the environment.

(B) Orders issued pursuant to this paragraph may be enforced in an action brought in the appropriate United States district court as if the order were issued under section 303.

(C) Within 180 days after enactment of the Clean Air Act Amendments of 1990, the Administrator shall publish guidance for using the order authorities established by this paragraph. Such guidance shall provide for the coordinated use of the authorities of this paragraph with other emergency powers authorized by section 106 of the Comprehensive Environmental Response, Compensation and Liability Act, sections 311(c), 308, 309 and 504(a) of the Federal Water Pollution Control Act, sections 3007, 3008, 3013, and 7003 of the Solid Waste Disposal Act, sections 1445 and 1431 of the Safe Drinking Water Act, sections 5 and 7 of the Toxic Substances Control Act, and sections 113, 114, and 303 of this Act.

(10) PRESIDENTIAL REVIEW.—The President shall conduct a review of release prevention, mitigation and response authorities of the various Federal agencies and shall clarify and coordinate agency responsibilities

to assure the most effective and efficient implementation of such authorities and to identify any deficiencies in authority or resources which may exist. The President may utilize the resources and solicit the recommendations of the Chemical Safety and Hazard Investigation Board in conducting such review. At the conclusion of such review, but not later than 24 months after the date of enactment of the Clean Air Act Amendments of 1990, the President shall transmit a message to the Congress on the release prevention, mitigation and response activities of the Federal Government making such recommendations for change in law as the President may deem appropriate. Nothing in this paragraph shall be interpreted, construed or applied to authorize the President to modify or reassign release prevention, mitigation or response authorities otherwise established by law.

(11) STATE AUTHORITY.—Nothing in this subsection shall preclude, deny or limit any right of a State or political subdivision thereof to adopt or enforce any regulation, requirement, limitation or standard (including any procedural requirement) that is more stringent than a regulation, requirement, limitation or standard in effect under this subsection or that applies to a substance not subject to this subsection.

(s) PERIODIC REPORT.—Not later than January 15, 1993 and every 3 years thereafter, the Administrator shall prepare and transmit to the Congress a comprehensive report on the measures taken by the Agency and by the States to implement the provisions of this section. The Administrator shall maintain a database on pollutants and sources subject to the provisions of this section and shall include aggregate information from the database in each annual report. The report shall include, but not be limited to—

- (1) a status report on standard-setting under subsections (d) and (f);
- (2) information with respect to compliance with such standards including the costs of compliance experienced by sources in various categories and subcategories;
- (3) development and implementation of the national urban air toxics program; and
- (4) recommendations of the Chemical Safety and Hazard Investigation Board with respect to the prevention and mitigation of accidental releases.

[¶ 2113]

Sec. 113. FEDERAL ENFORCEMENT

(a) IN GENERAL.—

(1) ORDER TO COMPLY WITH SIP.—Whenever, on the basis of any information available to the Administrator, the Administrator finds that any person has violated or is in violation of any requirement or prohibition of an applicable implementation plan or permit, the Administrator shall notify the person and the State in which the plan applies of such finding. At any time after the expiration of 30 days following the date on

which such notice of a violation is issued, the Administrator may, without regard to the period of violation (subject to section 2462 of title 28 of the United States Code)—

(A) issue an order requiring such person to comply with the requirements or prohibitions of such plan or permit,

(B) issue an administrative penalty order in accordance with subsection (d), or

(C) bring a civil action in accordance with subsection (b).

(2) **STATE FAILURE TO ENFORCE SIP OR PERMIT PROGRAM.**—Whenever, on the basis of information available to the Administrator, the Administrator finds that violations of an applicable implementation plan or an approved permit program under title V are so widespread that such violations appear to result from a failure of the State in which the plan or permit program applies to enforce the plan or permit program effectively, the Administrator shall so notify the State. In the case of a permit program, the notice shall be made in accordance with title V. If the Administrator finds such failure extends beyond the 30th day after such notice (90 days in the case of such permit program), the Administrator shall give public notice of such finding. During the period beginning with such public notice and ending when such State satisfies the Administrator that it will enforce such plan or permit program (hereafter referred to in this section as “period of federally assumed enforcement”), the Administrator may enforce any requirement or prohibition of such plan or permit program with respect to any person by—

(A) issuing an order requiring such person to comply with such requirement or prohibition,

(B) issuing an administrative penalty order in accordance with subsection (d), or

(C) bringing a civil action in accordance with subsection (b).

(3) **EPA ENFORCEMENT OF OTHER REQUIREMENTS.**—Except for a requirement or prohibition enforceable under the preceding provisions of this subsection, whenever, on the basis of any information available to the Administrator, the Administrator finds that any person has violated, or is in violation of, any other requirement or prohibition of this title, section 303 of title III, title IV, title V, or title VI, including, but not limited to, a requirement or prohibition of any rule, plan, order, waiver, or permit promulgated, issued, or approved under those provisions or titles, or for the payment of any fee owed to the United States under this Act (other than title II), the Administrator may—

(A) issue an administrative penalty order in accordance with subsection (d),

(B) issue an order requiring such person to comply with such requirement or prohibition,

(C) bring a civil action in accordance with subsection (b) or section 305, or

(D) request the Attorney General to commence a criminal action in accordance with subsection (c).

(4) **REQUIREMENTS FOR ORDERS.**—An order issued under this subsection (other than an order relating to a violation of section 112) shall not take effect until the person to whom it is issued has had an opportunity to confer with the Administrator concerning the alleged violation. A copy of any order issued under this subsection shall be sent to the State air pollution control agency of any State in which the violation occurs. Any order issued under this subsection shall state with reasonable specificity the nature of the violation and specify a time for compliance which the Administrator determines is reasonable, taking into account the seriousness of the violation and any good faith efforts to comply with applicable requirements. In any case in which an order under this subsection (or notice to a violator under paragraph (1)) is issued to a corporation, a copy of such order (or notice) shall be issued to appropriate corporate officers. An order issued under this subsection shall require the person to whom it was issued to comply with the requirement as expeditiously as practicable, but in no event longer than one year after the date the order was issued, and shall be nonrenewable. No order issued under this subsection shall prevent the State or the Administrator from assessing any penalties nor otherwise affect or limit the State's or the United States' authority to enforce under other provisions of this Act, nor affect any person's obligations to comply with any section of this Act or with a term or condition of any permit or applicable implementation plan promulgated or approved under this Act.

(5) **FAILURE TO COMPLY WITH NEW SOURCE REQUIREMENTS.**—Whenever, on the basis of any available information, the Administrator finds that a State is not acting in compliance with any requirement or prohibition of the Act relating to the construction of new sources or the modification of existing sources, the Administrator may—

(A) issue an order prohibiting the construction or modification of any major stationary source in any area to which such requirement applies;

(B) issue an administrative penalty order in accordance with subsection (d), or

(C) bring a civil action under subsection (b).

Nothing in this subsection shall preclude the United States from commencing a criminal action under section 113(c) at any time for any such violation.

(b) **CIVIL JUDICIAL ENFORCEMENT.**—The Administrator shall, as appropriate, in the case of any person that is the owner or operator of an affected source, a major emitting facility, or a major stationary source, and may, in the case of any other person, commence a civil action for a permanent or tempo-

rary injunction, or to assess and recover a civil penalty of not more than \$25,000 per day for each violation, or both, in any of the following instances:

(1) Whenever such person has violated, or is in violation of, any requirement or prohibition of an applicable implementation plan or permit. Such an action shall be commenced (A) during any period of federally assumed enforcement, or (B) more than 30 days following the date of the Administrator's notification under subsection (a)(1) that such person has violated, or is in violation of, such requirement or prohibition.

(2) Whenever such person has violated, or is in violation of, any other requirement or prohibition of this title, section 303 of title III, title IV, title V, or title VI, including, but not limited to, a requirement or prohibition of any rule, order, waiver or permit promulgated, issued, or approved under this Act, or for the payment of any fee owed the United States under this Act (other than title II).

(3) Whenever such person attempts to construct or modify a major stationary source in any area with respect to which a finding under subsection (a)(5) has been made.

Any action under this subsection may be brought in the district court of the United States for the district in which the violation is alleged to have occurred, or is occurring, or in which the defendant resides, or where the defendant's principal place of business is located, and such court shall have jurisdiction to restrain such violation, to require compliance, to assess such civil penalty, to collect any fees owed the United States under this Act (other than title II) and any noncompliance assessment and nonpayment penalty owed under section 120, and to award any other appropriate relief. Notice of the commencement of such action shall be given to the appropriate State air pollution control agency. In the case of any action brought by the Administrator under this subsection, the court may award costs of litigation (including reasonable attorney and expert witness fees) to the party or parties against whom such action was brought if the court finds that such action was unreasonable.

(c) CRIMINAL PENALTIES.—(1) Any person who knowingly violates any requirement or prohibition of an applicable implementation plan (during any period of federally assumed enforcement or more than 30 days after having been notified under subsection (a)(1) by the Administrator that such person is violating such requirement or prohibition), any order under subsection (a) of this section, requirement or prohibition of section 111(e) of this title (relating to new source performance standards), section 112 of this title, section 114 of this title (relating to inspections, etc.), section 129 of this title (relating to solid waste combustion), section 165(a) of this title (relating to preconstruction requirements), an order under section 167 of this title (relating to preconstruction requirements), an order under section 303 of title III (relating to emergency orders), section 502(a) or 503(c) of title V (relating to permits), or any requirement or prohibition of title IV (relating to acid deposition control), or title VI (relating to stratospheric ozone control), including a requirement of any rule, order, waiver, or permit promulgated or approved under such sections or titles, and including any requirement for the payment of any fee owed the United States under this Act (other than title II) shall, upon

conviction, be punished by a fine pursuant to title 18 of the United States Code, or by imprisonment for not to exceed 5 years, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

(2) Any person who knowingly—

(A) makes any false material statement, representation, or certification in, or omits material information from, or knowingly alters, conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required pursuant to this Act to be either filed or maintained (whether with respect to the requirements imposed by the Administrator or by a State);

(B) fails to notify or report as required, under this Act; or

(C) falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required to be maintained or followed under this Act

shall, upon conviction, be punished by a fine pursuant to title 18 of the United States Code, or by imprisonment for not more than 2 years, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

(3) Any person who knowingly fails to pay any fee owed the United States under this title, title III, IV, V, or VI shall, upon conviction, be punished by a fine pursuant to title 18 of the United States Code, or by imprisonment for not more than 1 year, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

(4) Any person who negligently releases into the ambient air any hazardous air pollutant listed pursuant to section 112 of this Act or any extremely hazardous substance listed pursuant to section 302(a)(2) of the Superfund Amendments and Reauthorization Act of 1986 (42 U.S.C. 11002(a)(2)) that is not listed in section 112 of this Act, and who at the time negligently places another person in imminent danger of death or serious bodily injury shall, upon conviction, be punished by a fine under title 18 of the United States Code, or by imprisonment for not more than 1 year, or both. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment.

(5)(A) Any person who knowingly releases into the ambient air any hazardous air pollutant listed pursuant to section 112 of this Act or any extremely hazardous substance listed pursuant to section 302(a)(2) of the Superfund Amendments and Reauthorization Act of 1986 (42 U.S.C.

11002(a)(2)) that is not listed in section 112 of this Act, and who knows at the time that he thereby places another person in imminent danger of death or serious bodily injury shall, upon conviction, be punished by a fine under title 18 of the United States Code, or by imprisonment of not more than 15 years, or both. Any person committing such violation which is an organization shall, upon conviction under this paragraph, be subject to a fine of not more than \$1,000,000 for each violation. If a conviction of any person under this paragraph is for a violation committed after a first conviction of such person under this paragraph, the maximum punishment shall be doubled with respect to both the fine and imprisonment. For any air pollutant for which the Administrator has set an emissions standard or for any source for which a permit has been issued under title V, a release of such pollutant in accordance with that standard or permit shall not constitute a violation of this paragraph or paragraph (4).

(B) In determining whether a defendant who is an individual knew that the violation placed another person in imminent danger of death or serious bodily injury—

(i) the defendant is responsible only for actual awareness or actual belief possessed; and

(ii) knowledge possessed by a person other than the defendant, but not by the defendant, may not be attributed to the defendant;

except that in proving a defendant's possession of actual knowledge, circumstantial evidence may be used, including evidence that the defendant took affirmative steps to be shielded from relevant information.

(C) It is an affirmative defense to a prosecution that the conduct charged was freely consented to by the person endangered and that the danger and conduct charged were reasonably foreseeable hazards of—

(i) an occupation, a business, or a profession; or

(ii) medical treatment or medical or scientific experimentation conducted by professionally approved methods and such other person had been made aware of the risks involved prior to giving consent. The defendant may establish an affirmative defense under this subparagraph by a preponderance of the evidence.

(D) All general defenses, affirmative defenses, and bars to prosecution that may apply with respect to other Federal criminal offenses may apply under subparagraph (A) of this paragraph and shall be determined by the courts of the United States according to the principles of common law as they may be interpreted in the light of reason and experience. Concepts of justification and excuse applicable under this section may be developed in the light of reason and experience.

(E) The term “organization” means a legal entity, other than a government, established or organized for any purpose, and such term includes a corporation, company, association, firm, partnership, joint stock company, foundation, institution, trust, society, union, or any other association of persons.

(F) The term “serious bodily injury” means bodily injury which involves a substantial risk of death, unconsciousness, extreme physical pain, protracted and obvious disfigurement or protracted loss or impairment of the function of a bodily member, organ, or mental faculty.

(6) For the purpose of this subsection, the term “person” includes, in addition to the entities referred to in section 302(e), any responsible corporate officer.

(d) ADMINISTRATIVE ASSESSMENT OF CIVIL PENALTIES.—(1) The Administrator may issue an administrative order against any person assessing a civil administrative penalty of up to \$25,000, per day of violation, whenever, on the basis of any available information, the Administrator finds that such person—

(A) has violated or is violating any requirement or prohibition of an applicable implementation plan (such order shall be issued (i) during any period of federally assumed enforcement, or (ii) more than thirty days following the date of the Administrator’s notification under subsection (a)(1) of this section of a finding that such person has violated or is violating such requirement or prohibition); or

(B) has violated or is violating any other requirement or prohibition of title I, III, IV, V, or VI, including, but not limited to, a requirement or prohibition of any rule, order, waiver, permit, or plan promulgated, issued, or approved under this Act, or for the payment of any fee owed the United States under this Act (other than title II); or

(C) attempts to construct or modify a major stationary source in any area with respect to which a finding under subsection (a)(5) of this section has been made.

The Administrator’s authority under this paragraph shall be limited to matters where the total penalty sought does not exceed \$200,000 and the first alleged date of violation occurred no more than 12 months prior to the initiation of the administrative action, except where the Administrator and the Attorney General jointly determine that a matter involving a larger penalty amount or longer period of violation is appropriate for administrative penalty action. Any such determination by the Administrator and the Attorney General shall not be subject to judicial review.

(2)(A) An administrative penalty assessed under paragraph (1) shall be assessed by the Administrator by an order made after opportunity for a hearing on the record in accordance with sections 554 and 556 of title 5

of the United States Code. The Administrator shall issue reasonable rules for discovery and other procedures for hearings under this paragraph. Before issuing such an order, the Administrator shall give written notice to the person to be assessed an administrative penalty of the Administrator's proposal to issue such order and provide such person an opportunity to request such a hearing on the order, within 30 days of the date the notice is received by such person.

(B) The Administrator may compromise, modify, or remit, with or without conditions, any administrative penalty which may be imposed under this subsection.

(3) The Administrator may implement, after consultation with the Attorney General and the States, a field citation program through regulations establishing appropriate minor violations for which field citations assessing civil penalties not to exceed \$5,000 per day of violation may be issued by officers or employees designated by the Administrator. Any person to whom a field citation is assessed may, within a reasonable time as prescribed by the Administrator through regulation, elect to pay the penalty assessment or to request a hearing on the field citation. If a request for a hearing is not made within the time specified in the regulation, the penalty assessment in the field citation shall be final. Such hearing shall not be subject to section 554 or 556 of title 5 of the United States Code, but shall provide a reasonable opportunity to be heard and to present evidence. Payment of a civil penalty required by a field citation shall not be a defense to further enforcement by the United States or a State to correct a violation, or to assess the statutory maximum penalty pursuant to other authorities in the Act, if the violation continues.

(4) Any person against whom a civil penalty is assessed under paragraph (3) of this subsection or to whom an administrative penalty order is issued under paragraph (1) of this subsection may seek review of such assessment in the United States District Court for the District of Columbia or for the district in which the violation is alleged to have occurred, in which such person resides, or where such person's principal place of business is located, by filing in such court within 30 days following the date the administrative penalty order becomes final under paragraph (2), the assessment becomes final under paragraph (3), or a final decision following a hearing under paragraph (3) is rendered, and by simultaneously sending a copy of the filing by certified mail to the Administrator and the Attorney General. Within 30 days thereafter, the Administrator shall file in such court a certified copy, or certified index, as appropriate, of the record on which the administrative penalty order or assessment was issued. Such court shall not set aside or remand such order or assessment unless there is not substantial evidence in the record, taken as a whole, to support the finding of a violation or unless the order or penalty assessment constitutes an abuse of discretion. Such order or penalty assessment shall not be subject to review by any court except as

provided in this paragraph. In any such proceedings, the United States may seek to recover civil penalties ordered or assessed under this section.

(5) If any person fails to pay an assessment of a civil penalty or fails to comply with an administrative penalty order—

(A) after the order or assessment has become final, or

(B) after a court in an action brought under paragraph (4) has entered a final judgment in favor of the Administrator, the Administrator shall request the Attorney General to bring a civil action in an appropriate district court to enforce the order or to recover the amount ordered or assessed (plus interest at rates established pursuant to section 6621(a)(2) of the Internal Revenue Code of 1986 from the date of the final order or decision or the date of the final judgment, as the case may be). In such an action, the validity, amount, and appropriateness of such order or assessment shall not be subject to review. Any person who fails to pay on a timely basis a civil penalty ordered or assessed under this section shall be required to pay, in addition to such penalty and interest, the United States enforcement expenses, including but not limited to attorneys fees and costs incurred by the United States for collection proceedings and a quarterly nonpayment penalty for each quarter during which such failure to pay persists. Such nonpayment penalty shall be 10 percent of the aggregate amount of such person's outstanding penalties and nonpayment penalties accrued as of the beginning of such quarter.

(e) **PENALTY ASSESSMENT CRITERIA.**—(1) In determining the amount of any penalty to be assessed under this section or section 304(a), the Administrator or the court, as appropriate, shall take into consideration (in addition to such other factors as justice may require) the size of the business, the economic impact of the penalty on the business, the violator's full compliance history and good faith efforts to comply, the duration of the violation as established by any credible evidence (including evidence other than the applicable test method), payment by the violator of penalties previously assessed for the same violation, the economic benefit of noncompliance, and the seriousness of the violation. The court shall not assess penalties for noncompliance with administrative subpoenas under section 307(a), or actions under section 114 of this Act, where the violator had sufficient cause to violate or fail or refuse to comply with such subpoena or action.

(2) A penalty may be assessed for each day of violation. For purposes of determining the number of days of violation for which a penalty may be assessed under subsection (b) or (d)(1) of this section, or section 304(a), or an assessment may be made under section 120, where the Administrator or an air pollution control agency has notified the source of the violation, and the plaintiff makes a prima facie showing that the conduct or events giving rise to the violation are likely to have continued or recurred past the date of notice, the days of violation shall be presumed to include the date of such notice and each and every day thereafter until the violator establishes that continuous compliance has been achieved,

except to the extent that the violator can prove by a preponderance of the evidence that there were intervening days during which no violation occurred or that the violation was not continuing in nature.

(f) **AWARDS.**—The Administrator may pay an award, not to exceed \$10,000, to any person who furnishes information or services which lead to a criminal conviction or a judicial or administrative civil penalty for any violation of this title or title III, IV, V, or VI of this Act enforced under this section. Such payment is subject to available appropriations for such purposes as provided in annual appropriation Acts. Any officer, or employee of the United States or any State or local government who furnishes information or renders service in the performance of an official duty is ineligible for payment under this subsection. The Administrator may, by regulation, prescribe additional criteria for eligibility for such an award.

(g) **SETTLEMENTS; PUBLIC PARTICIPATION.**—At least 30 days before a consent order or settlement agreement of any kind under this Act to which the United States is a party (other than enforcement actions under section 113, 120, or title II, whether or not involving civil or criminal penalties, or judgments subject to Department of Justice policy on public participation) is final or filed with a court, the Administrator shall provide a reasonable opportunity by notice in the Federal Register to persons who are not named as parties or intervenors to the action or matter to comment in writing. The Administrator or the Attorney General, as appropriate, shall promptly consider any such written comments and may withdraw or withhold his consent to the proposed order or agreement if the comments disclose facts or considerations which indicate that such consent is inappropriate, improper, inadequate, or inconsistent with the requirements of this Act. Nothing in this subsection shall apply to civil or criminal penalties under this Act.

(h) **OPERATOR.**—For purposes of the provisions of this section and section 120, the term “operator”, as used in such provisions, shall include any person who is senior management personnel or a corporate officer. Except in the case of knowing and willful violations, such term shall not include any person who is a stationary engineer or technician responsible for the operation, maintenance, repair, or monitoring of equipment and facilities and who often has supervisory and training duties but who is not senior management personnel or a corporate officer. Except in the case of knowing and willful violations, for purposes of subsection (c)(4) of this section, the term “a person” shall not include an employee who is carrying out his normal activities and who is not a part of senior management personnel or a corporate officer. Except in the case of knowing and willful violations, for purposes of paragraphs (1), (2), (3), and (5) of subsection (c) of this section the term “a person” shall not include an employee who is carrying out his normal activities and who is acting under orders from the employer.

[¶ 2114]

Sec. 114. INSPECTIONS, MONITORING, AND ENTRY

(a) For the purpose (i) of developing or assisting in the development of any implementation plan under section 110 or 111(d), any standard of

performance under section 111, any emission standard under section 112, [or any regulation of solid waste combustion under section 129 {or} or any regulation under section 129 (relating to solid waste combustion)] [CCH Note: Both versions as per P.L. 101-549.], (ii) of determining whether any person is in violation of any such standard or any requirement of such a plan, or (iii) carrying out any provision of this Act (except a provision of title II with respect to a manufacturer of motor vehicles or motor vehicle engines)—

(1) the Administrator may require any person who owns or operates any emission source, who manufactures emission control equipment or process equipment, who the Administrator believes may have information necessary for the purposes set forth in this subsection, or who is subject to any requirement of this Act (other than a manufacturer subject to the provisions of section 206(c) or 208 with respect to a provision of title II) on a one-time, periodic or continuous basis to—

(A) establish and maintain such records;

(B) make such reports;

(C) install, use, and maintain such monitoring equipment, and use such audit procedures, or methods;

(D) sample such emissions (in accordance with such procedures or methods, at such locations, at such intervals, during such periods and in such manner as the Administrator shall prescribe);

(E) keep records on control equipment parameters, production variables or other indirect data when direct monitoring of emissions is impractical;

(F) submit compliance certifications in accordance with section 114(a)(3); and

(G) provide such other information as the Administrator may reasonably require; and

(2) the Administrator or his authorized representative, upon presentation of his credentials—

(A) shall have a right of entry to, upon, or through any premises of such person or in which any records required to be maintained under paragraph (1) of this section are located, and

(B) may at reasonable times have access to and copy any records, inspect any monitoring equipment or method required under paragraph (1), and sample any emissions which the owner or operator of such source is required to sample under paragraph (1).

(3) The Administrator shall in the case of any person which is the owner or operator of a major stationary source, and may, in the case of any other person, require enhanced monitoring and submission of compliance certifications. Compliance certifications shall include (A) identification of the applicable requirement that is the basis of the certification, (B) the method used for determining the compliance status of the source, (C) the compliance status, (D) whether compliance is continuous or

intermittent, (E) such other facts as the Administrator may require. Compliance certifications and monitoring data shall be subject to subsection (c) of this section. Submission of a compliance certification shall in no way limit the Administrator's authorities to investigate or otherwise implement this Act. The Administrator shall promulgate rules to provide guidance and to implement this paragraph within 2 years after the enactment of the Clean Air Act Amendments of 1990.

(b)(1) Each State may develop and submit to the Administrator a procedure for carrying out this section in such State. If the Administrator finds the State procedure is adequate, he may delegate to such State any authority he has to carry out this section.

(2) Nothing in this subsection shall prohibit the Administrator from carrying out this section in a State.

(c) Any records, reports or information obtained under subsection (a) shall be available to the public, except that upon a showing satisfactory to the Administrator by any person that records, reports, or information, or particular part thereof, (other than emission data) to which the Administrator has access under this section if made public, would divulge methods or processes entitled to protection as trade secrets of such person, the Administrator shall consider such record, report, or information or particular portion thereof confidential in accordance with the purposes of section 1905 of title 18 of the United States Code, except that such record, report, or information may be disclosed to other officers, employees, or authorized representatives of the United States concerned with carrying out this Act or when relevant in any proceeding under this Act.

(d)(1) In the case of any emission standard or limitation or other requirement which is adopted by a State, as part of an applicable implementation plan or as part of an order under section 113(d), before carrying out an entry, inspection, or monitoring under paragraph (2) of subsection (a) with respect to such standard, limitation, or other requirement, the Administrator (or his representatives) shall provide the State air pollution control agency with reasonable prior notice of such action, indicating the purpose of such action. No State agency which receives notice under this paragraph of an action proposed to be taken may use the information contained in the notice to inform the person whose property is proposed to be affected of the proposed action. If the Administrator has reasonable basis for believing that a State agency is so using or will so use such information, notice to the agency under this paragraph is not required until such time as the Administrator determines the agency will no longer so use information contained in a notice under this paragraph. Nothing in this section shall be construed to require notification to any State agency of any action taken by the Administrator with respect to any standard, limitation, or other requirement which is not part of any applicable implementation plan or which was promulgated by the Administrator under section 110(c).

(2) Nothing in paragraph (1) shall be construed to provide that any failure of the Administrator to comply with the requirements of such paragraph shall be a defense in any enforcement action brought by the

Administrator or shall make inadmissible as evidence in any such action any information or material obtained notwithstanding such failure to comply with such requirements.

[¶ 2115]

Sec. 115. INTERNATIONAL AIR POLLUTION

(a) Whenever the Administrator, upon receipt of reports, surveys or studies from any duly constituted international agency has reason to believe that any air pollutant or pollutants emitted in the United States cause or contribute to air pollution which may reasonably be anticipated to endanger public health or welfare in a foreign country or whenever the Secretary of State requests him to do so with respect to such pollution which the Secretary of State alleges is of such a nature, the Administrator shall give formal notification thereof to the Governor of the State in which such emissions originate.

(b) The notice of the Administrator shall be deemed to be a finding under section 110(a)(2)(H)(ii) which requires a plan revision with respect to so much of the applicable implementation plan as is inadequate to prevent or eliminate the endangerment referred to in subsection (a). Any foreign country so affected by such emission of pollutant or pollutants shall be invited to appear at any public hearing associated with any revision of the appropriate portion of the applicable implementation plan.

(c) This section shall apply only to a foreign country which the Administrator determines has given the United States essentially the same rights with respect to the prevention or control of air pollution occurring in that country as is given that country by this section.

(d) Recommendations issued following any abatement conference conducted prior to the enactment of the Clean Air Act Amendments of 1977 shall remain in effect with respect to any pollutant for which no national ambient air quality standard has been established under section 109 of this Act unless the Administrator, after consultation with all agencies which were party to the conference, rescinds any such recommendation on grounds of obsolescence.

[¶ 2116]

Sec. 116. RETENTION OF STATE AUTHORITY

Except as otherwise provided in sections 119(c), (e) and (f) (as in effect before the date of the enactment of the Clean Air Act Amendment of 1977), 209, 211(c)(4), and 233 (preempting certain State regulation of moving sources) nothing in this Act shall preclude or deny the right of any State or political subdivision thereof to adopt or enforce (1) any standard or limitation respecting emissions of air pollutants or (2) any requirement respecting control or abatement of air pollution; except that if an emission standard or limitation is in effect under an applicable implementation plan or under section 111 or 112, such State or political subdivision may not adopt or enforce any emission standard or limitation which is less stringent than the standard or limitation under such plan or section.

[¶ 2117]

Sec. 117. PRESIDENT'S AIR QUALITY ADVISORY BOARD AND ADVISORY COMMITTEES

(a) In order to obtain assistance in the development and implementation of the purposes of this Act, including air quality criteria, recommended control techniques, standards, research and development, and to encourage the continued efforts on the part of industry to improve air quality and to develop economically feasible methods for the control and abatement of air pollution, the Administrator shall from time to time establish advisory committees. Committee members shall include, but not be limited to, persons who are knowledgeable concerning air quality from the standpoint of health, welfare, economics, or technology.

(b) The members of any other advisory committees appointed pursuant to this Act who are not officers or employees of the United States, while attending conferences or meetings or while otherwise serving at the request of the Administrator, shall be entitled to receive compensation at a rate to be fixed by the Administrator, but not exceeding \$100 per diem, including travel time, and while away from their homes or regular places of business, they may be allowed travel expenses, including per diem in lieu of subsistence, as authorized by section 5703 of title 5 of the United States Code for persons in the Government service employed intermittently.

(c) Prior to—

- (1) issuing criteria for an air pollutant under section 108(a)(2),
- (2) publishing any list under section 111(b)(1)(A) or section 112(b)(1)(A),
- (3) publishing any standard under section 111 or section 112, or
- (4) publishing any regulation under section 202(a), the Administrator shall, to the maximum extent practicable within the time provided, consult with appropriate advisory committees, independent experts, and Federal departments and agencies.

[¶ 2118]

Sec. 118. CONTROL OF POLLUTION FROM FEDERAL FACILITIES

(a) GENERAL COMPLIANCE.—Each department, agency, and instrumentality of the executive, legislative, and judicial branches of the Federal Government (1) having jurisdiction over any property or facility, or (2) engaged in any activity resulting, or which may result, in the discharge of air pollutants, and each officer, agent, or employee thereof, shall be subject to, and comply with, all Federal, State, interstate, and local requirements, administrative authority, and process and sanctions respecting the control and abatement of air pollution in the same manner, and to the same extent as any nongovernmental entity. The preceding sentence shall apply (A) to any requirement whether substantive or procedural (including any recordkeeping or reporting requirement, any requirement respecting permits and any other requirement whatsoever), (B) to any requirement to pay a fee or charge imposed by any

State or local agency to defray the costs of its air pollution regulatory program, (C) to the exercise of any Federal, State, or local administrative authority, and (D) to any process and sanction, whether enforced in Federal, State, or local courts, or in any other manner. This subsection shall apply notwithstanding any immunity of such agencies, officers, agents, or employees under any law or rule of law. No officer, agent, or employee of the United States shall be personally liable for any civil penalty for which he is not otherwise liable.

(b) The President may exempt any emission source of any department, agency, or instrumentality in the executive branch from compliance with such a requirement if he determines it to be in the paramount interest of the United States to do so, except that no exemption may be granted from section 111, and an exemption from section 112 may be granted only in accordance with section 112(i)(4). No such exemption shall be granted due to lack of appropriation unless the President shall have specifically requested such appropriation as a part of the budgetary process and the Congress shall have failed to make available such requested appropriation. Any exemption shall be for a period not in excess of one year, but additional exemptions may be granted for periods of not to exceed one year upon the President's making a new determination. In addition to any such exemption of a particular emission source, the President may, if he determines it to be in the paramount interest of the United States to do so, issue regulations exempting from compliance with the requirements of this section any weaponry, equipment, aircraft, vehicles, or other classes or categories of property which are owned or operated by the Armed Forces of the United States (including the Coast Guard) or by the National Guard of any State and which are uniquely military in nature. The President shall reconsider the need for such regulations at three-year intervals. The President shall report each January to the Congress all exemptions from the requirements of this section granted during the preceding calendar year, together with his reason for granting each such exemption.

(c) GOVERNMENT VEHICLES.—Each department, agency, and instrumentality of executive, legislative, and judicial branches of the Federal Government shall comply with all applicable provisions of a valid inspection and maintenance program established under the provisions of subpart 2 of part D or subpart 3 of part D except for such vehicles that are considered military tactical vehicles.

(d) VEHICLES OPERATED ON FEDERAL INSTALLATIONS.—Each department, agency, and instrumentality of executive, legislative, and judicial branches of the Federal Government having jurisdiction over any property or facility shall require all employees which operate motor vehicles on the property or facility to furnish proof of compliance with the applicable requirements of any vehicle inspection and maintenance program established under the provisions of subpart 2 of part D or subpart 3 of part D for the State in which such property or facility is located (without regard to whether such vehicles are registered in the State). The installation shall use one of the following methods to establish proof of compliance—

(1) presentation by the vehicle owner of a valid certificate of compliance from the vehicle inspection and maintenance program;

(2) presentation by the vehicle owner of proof of vehicle registration within the geographic area covered by the vehicle inspection and maintenance program (except for any program whose enforcement mechanism is not through the denial of vehicle registration);

(3) another method approved by the vehicle inspection and maintenance program administrator.

[¶ 2119]

Sec. 119. PRIMARY NONFERROUS SMELTER ORDERS

(a)(1) Upon application by the owner or operator of a primary nonferrous smelter, a primary nonferrous smelter order under subsection (b) may be issued—

(A) by the Administrator, after thirty days' notice to the State, or

(B) by the State in which such source is located, but no such order issued by the State shall take effect until the Administrator determines that such order has been issued in accordance with the requirements of this Act.

Not later than ninety days after submission by the State to the Administrator of notice of the issuance of a primary nonferrous smelter order under this section, the Administrator shall determine whether or not such order has been issued by the State in accordance with the requirements of this Act. If the Administrator determines that such order has not been issued in accordance with such requirements, he shall conduct a hearing respecting the reasonably available control technology for primary nonferrous smelters.

(2)(A) An order issued under this section to a primary nonferrous smelter shall be referred to as a "primary nonferrous smelter order". No primary nonferrous smelter may receive both an enforcement order under section 113(d) and a primary nonferrous smelter order under this section.

(B) Before any hearing conducted under this section, in the case of an application made by the owner or operator of a primary nonferrous smelter for a second order under this section, the applicant shall furnish the Administrator (or the State as the case may be) with a statement of the grounds on which such application is based (including all supporting documents and information). The statement of the grounds for the proposed order shall be provided by the Administrator or the State in any case in which such State or Administrator is acting on its own initiative. Such statement (including such documents and information) shall be made available to the public for a thirty-day period before such hearing and shall be considered as part of such hearing. No primary nonferrous smelter order may be granted unless the applicant establishes that he meets the conditions required for the issuance of such order (or the Admin-

istrator or State establishes the meeting of such conditions when acting on their own initiative).

(C) Any decision with respect to the issuance of a primary nonferrous smelter order shall be accompanied by a concise statement of the findings and of the basis of such findings.

(3) For the purposes of section[s] 110, 304, and 307 of this Act, any order issued by the State and in effect pursuant to this subsection shall become part of the applicable implementation plan.

(b) A primary nonferrous smelter order under this section may be issued to a primary nonferrous smelter if—

(1) such smelter is in existence on the date of the enactment of this section;

(2) the requirement of the applicable implementation plan with respect to which the order is issued is an emission limitation or standard for sulfur oxides which is necessary and intended to be itself sufficient to enable attainment and maintenance of national primary and secondary ambient air quality standards for sulfur oxides; and

(3) such smelter is unable to comply with such requirement by the applicable date for compliance because no means of emission limitation applicable to such smelter which will enable it to achieve compliance with such requirement has been adequately demonstrated to be reasonably available (as determined by the Administrator, taking into account the cost of compliance, non-air quality health and environmental impact, and energy consideration).

(c)(1) A second order issued to a smelter under this section shall set forth compliance schedules containing increments of progress which require compliance with the requirement postponed as expeditiously as practicable. The increments of progress shall be limited to requiring compliance with subsection (d) and, in the case of a second order, to procuring, installing, and operating the necessary means of emission limitation as expeditiously as practicable after the Administrator determines such means have been adequately demonstrated to be reasonably available within the meaning of subsection (b)(3).

(2) Not in excess of two primary nonferrous smelter orders may be issued under this section to any primary nonferrous smelter. The first such order issued to a smelter shall not result in the postponement of the requirement with respect to which such order is issued beyond January 1, 1983. The second such order shall not result in the postponement of such requirement beyond January 1, 1988.

(d)(1)(A) Each primary nonferrous smelter to which an order is issued under this section shall be required to use such interim measures for the period during which such order is in effect as may be necessary in the judgment of the Administrator to assure attainment and maintenance of the national primary and secondary ambient air quality standards during such period, taking into account the aggregate effect on air quality of such order together with all

variances, extensions, waivers, enforcement orders, delayed compliance orders and primary nonferrous smelter orders previously issued under this Act.

(B) Such interim requirements shall include—

(i) a requirement that the source to which the order applies comply with such reporting requirements and conduct such monitoring as the Administrator determines may be necessary, and

(ii) such measures as the Administrator determines are necessary to avoid an imminent and substantial endangerment to health of persons.

(C) Such interim measures shall also, except as provided in paragraph (2), include continuous emission reduction technology. The Administrator shall condition the use of any such interim measures upon the agreement of the owner or operator of the smelter—

(i) to comply with such conditions as the Administrator determines are necessary to maximize the reliability and enforceability of such interim measures, as applied to the smelter, in attaining and maintaining the national ambient air quality standards to which the order relates, and

(ii) to commit reasonable resources to research and development of appropriate emission control technology.

(2) The requirement of paragraph (1) for the use of continuous emission reduction technology may be waived with respect to a particular smelter by the State or the Administrator, after notice and a hearing on the record, and upon a showing by the owner or operator of the smelter that such requirement would be so costly as to necessitate permanent or prolonged temporary cessation of operations of the smelter. Upon application for such waiver, the Administrator shall be notified and shall, within ninety days, hold a hearing on the record in accordance with section 554 of title 5 of the United States Code. At such hearing the Administrator shall require the smelter involved to present information relating to any alleged cessation of operations and the detailed reasons or justifications therefor. On the basis of such hearing the Administrator shall make findings of fact as to the effect of such requirement and on the alleged cessation of operations and shall make such recommendations as he deems appropriate. Such report, findings, and recommendations shall be available to the public, and shall be taken into account by the State or the Administrator in making the decision whether or not to grant such waiver.

(3) In order to obtain information for purposes of a waiver under paragraph (2), the Administrator may, on his own motion, conduct an investigation and use the authority of section 321.

(4) In the case of any smelter which on the date of enactment of this section uses continuous emission reduction technology and supplemental

controls and which receives an initial primary nonferrous smelter order under this section, no additional continuous emission reduction technology shall be required as a condition of such order unless the Administrator determines, at any time, after notice and public hearing, that such additional continuous emission reduction technology is adequately demonstrated to be reasonably available for the primary nonferrous smelter industry.

(e) At any time during which an order under this section applies, the Administrator may enter upon a public hearing respecting the availability of technology. Any order under this section shall be terminated if the Administrator determines on the record, after notice and public hearing, that the conditions upon which the order was based no longer exist. If the owner or operator of the smelter to which the order is issued demonstrates that prompt termination of such order would result in undue hardship, the termination shall become effective at the earliest practicable date on which such undue hardship would not result, but in no event later than the date required under subsection (c).

(f) If the Administrator determines that a smelter to which an order is issued under this section is in violation of any requirement of subsection (c) or (d), he shall—

- (1) enforce such requirement under section 113,
- (2) (after notice and opportunity for public hearing) revoke such order and enforce compliance with the requirement with respect to which such order was granted,
- (3) give notice of noncompliance and commence action under section 120, or
- (4) take any appropriate combination of such actions.

[¶ 2120]

Sec. 120. NONCOMPLIANCE PENALTY

(a)(1)(A) Not later than 6 months after the date of enactment of this section, and after notice and opportunity for a public hearing, the Administrator shall promulgate regulations requiring the assessment and collection of a noncompliance penalty against persons referred to in paragraph (2)(A).

(B)(i) Each State may develop and submit to the Administrator a plan for carrying out this section in such State. If the Administrator finds that the State plan meets the requirements of this section, he may delegate to such State any authority he has to carry out this section.

(ii) Notwithstanding a delegation to a State under clause (i), the Administrator may carry out this section in such State under the circumstances described in subsection (b)(2)(B).

(2)(A) Except as provided in subparagraph (B) or (C) of this paragraph, the State or the Administrator shall assess and collect a noncompliance penalty against every person who owns or operates—

(i) a major stationary source (other than a primary nonferrous smelter which has received a primary nonferrous smelter order under section 119) which is not in compliance with any emission limitation, emission standard or compliance schedule under any applicable implementation plan, (whether or not such source is subject to a Federal or State consent decree), or

(ii) a stationary source which is not in compliance with an emission limitation, emission standard, standard of performance, or other requirement established under section 111, 167, 303, or 112 of this Act, or

(iii) a stationary source which is not in compliance with any requirement of title IV, V, or VI of this Act, or

(iv) any source referred to in clause (i), (ii), or (iii) (for which an extension, order, or suspension referred to in subparagraph (B), or Federal or State consent decree is in effect), or a primary nonferrous smelter which has received a primary nonferrous smelter order under section 119 which is not in compliance with any interim emission control requirement or schedule of compliance under such extension, order, or suspension, or consent decree.

For purposes of subsection (d)(2), in the case of a penalty assessed with respect to a source referred to in clause (iii) of this subparagraph, the costs referred to in such subsection (d)(2) shall be the economic value of noncompliance with the interim emission control requirement or the remaining steps in the schedule of compliance referred to in such clause.

(B) Notwithstanding the requirements of subparagraph (A)(i) and (ii), the owner or operator of any source shall be exempted from the duty to pay a noncompliance penalty under such requirements with respect to that source if, in accordance with the procedures in subsection (b)(5), the owner or operator demonstrates that the failure of such source to comply with any such requirement is due solely to—

(i) a conversion by such source from the burning of petroleum products or natural gas, or both, as the permanent primary energy source to the burning of coal pursuant to an order under section 113(d)(5) or section 119 (as in effect before the date of enactment of the Clean Air Act Amendments of 1977);

(ii) in the case of a coal-burning source granted an extension under the second sentence of section 119(c)(1) (as in effect before the date of enactment of the Clean Air Act Amendments of 1977), a prohibition from using petroleum products or natural gas or both, by reason of an order under the provisions of section 2(a) and (b) of the Energy Supply and Environmental Coordination Act of 1974 or under any legislation which amends or supersedes such provisions;

(iii) the use of innovative technology sanctioned by an enforcement order under section 113(d)(4);

(iv) an inability to comply with any such requirement, for which inability the source has received an order under section 113(d) (or an order under section 113 issued before the date of enactment of this section) which has the effect of permitting a delay or violation of any requirement of this Act (including a requirement of an applicable implementation plan) which inability results from reasons entirely beyond the control of the owner or operator of such source or of any entity controlling, controlled by, or under common control with the owner or operator of such source; or

(v) the conditions by reason of which a temporary emergency suspension is authorized under section 110(f) or (g).

An exemption under this subparagraph shall cease to be effective if the source fails to comply with interim emission control requirements or schedules of compliance (including increments of progress) under any such extension, order, or suspension.

(C) The Administrator may, after notice and opportunity for public hearing, exempt any source from the requirements of this section with respect to a particular instance of noncompliance if he finds that such instance of noncompliance is de minimis in nature and in duration.

(b) Regulations under subsection (a) shall—

(1) permit the assessment and collection of such penalty by the State if the State has a delegation of authority in effect under subsection (a)(1)(B)(i);

(2) provide for the assessment and collection of such penalty by the Administrator, if—

(A) the State does not have a delegation of authority in effect under subsection (a)(1)(B)(ii), or

(B) the State has such a delegation in effect but fails with respect to any particular person or source to assess or collect the penalty in accordance with the requirements of this section;

(3) require the States, or in the event the States fail to do so, the Administrator, to give a brief but reasonably specific notice of noncompliance under this section to each person referred to in subsection (a)(2)(A) with respect to each source owned or operated by such person which is not in compliance as provided in such subsection, not later than July 1, 1979, or thirty days after the discovery of such noncompliance, whichever is later;

(4) require each person to whom notice is given under paragraph (3) to—

(A) calculate the amount of the penalty owed (determined in accordance with subsection (d)(2)) and the schedule of payments (determined in accordance with subsection (d)(3)) for each such source and, within forty-five days after the issuance of such notice or after the denial of a petition under subparagraph (B), to submit that calculation and proposed schedule, together with the information necessary for an independent verification thereof, to the State and to the Administrator, or

(B) submit a petition, within forty-five days after the issuance of such notice, challenging such notice of noncompliance or alleging entitlement to an exemption under subsection (a)(2)(B) with respect to a particular source;

(5) require the Administrator to provide a hearing on the record (within the meaning of subchapter II of chapter 5 of title 5, United States Code) and to make a decision on such petition (including findings of fact and conclusions of law) not later than ninety days after the receipt of any petition under paragraph (4)(B), unless the State agrees to provide a hearing which is substantially similar to such a hearing on the record and to make a decision on such petition (including such findings and conclusions) within such ninety-day period;

(6)(A) authorize the Administrator on his own initiative to review the decision of the State under paragraph (5) and disapprove it if it is not in accordance with the requirements of this section, and (B) require the Administrator to do so not later than sixty days after receipt of a petition under this subparagraph, notice, and public hearing and a showing by such petitioner that the State decision under paragraph (5) is not in accordance with the requirements of this section;

(7) require payment, in accordance with subsection (d), of the penalty by each person to whom notice of noncompliance is given under paragraph (3) with respect to each noncomplying source for which such notice is given unless there has been a final determination granting a petition under paragraph (4)(B) with respect to such source;

(8) authorize the State or the Administrator to adjust (and from time to time to readjust) the amount of the penalty assessment calculated or the payment schedule proposed by such owner or operator under paragraph (4), if the Administrator finds after notice and opportunity for a hearing on the record that the penalty or schedule does not meet the requirements of this section; and

(9) require a final adjustment of the penalty within 180 days after such source comes into compliance in accordance with subsection (d)(4).

In any case in which the State establishes a noncompliance penalty under this section, the State shall provide notice thereof to the Administrator.

A noncompliance penalty established by a State under this section shall apply unless the Administrator, within ninety days after the date of receipt of notice of the State penalty assessment under this section, objects in writing to the

amount of the penalty as less than would be required to comply with guidelines established by the Administrator. If the Administrator objects, he shall immediately establish a substitute nondelayed compliance penalty applicable to such source.

(c) If the owner or operator of any stationary source to whom a notice is issued under subsection (b)(3)—

(1) does not submit a timely petition under subsection (b)(4)(B), or

(2) submits a petition under subsection (b)(4)(B) which is denied,
and

fails to submit a calculation of the penalty assessment, a schedule for payment, and the information necessary for independent verification thereof, the State (or the Administrator, as the case may be) may enter into a contract with any person who has no financial interest in the owner or operator of the source (or in any person controlling, controlled by or under common control with such source) to assist in determining the amount of the penalty assessment or payment schedule with respect to such source. The cost of carrying out such contract may be added to the penalty to be assessed against the owner or operator of such source.

(d)(1) All penalties assessed by the Administrator under this section shall be paid to the United States Treasury. All penalties assessed by the State under this section shall be paid to such State.

(2) The amount of the penalty which shall be assessed and collected with respect to any source under this section shall be equal to—

(A) the amount determined in accordance with regulations promulgated by the Administrator under subsection (a), which is no less than the economic value which a delay in compliance beyond July 1, 1979, may have for the owner of such source, including the quarterly equivalent of the capital costs of compliance and debt service over normal amortization period, not to exceed ten years, operation and maintenance costs foregone as a result of noncompliance, and any additional economic value which such a delay may have for the owner or operator of such source, minus

(B) the amount of any expenditure made by the owner or operator of that source during any such quarter for the purpose of bringing that source into, and maintaining compliance with, such requirement, to the extent that such expenditures have not been taken into account in the calculation of the penalty under subparagraph (A).

To the extent that any expenditure under subparagraph (B) made during any quarter is not subtracted for such quarter from the costs under subparagraph (A), such expenditure may be subtracted for any subsequent quarter from such costs. In no event shall the amount paid be less than the quarterly payment minus the amount attributed to actual cost of construction.

(3)(A) The assessed penalty required under this section shall be paid in quarterly installments for the period of covered noncompliance. All quarterly payments (determined without regard to any adjustment or any subtraction under paragraph (2)(B)) after the first payment shall be equal.

(B) The first payment shall be due on the date six months after the date of issuance of the notice of noncompliance under subsection (b)(3) with respect to any source or on January 1, 1980, whichever is later. Such first payment shall be in the amount of the quarterly installment for the upcoming quarter, plus the amount owed for any preceding period within the period of covered noncompliance for such source.

(C) For the purpose of this section, the term "period of covered noncompliance" means the period which begins—

(i) two years after the date of enactment of this section, in the case of a source for which notice of noncompliance under subsection (b)(3) is issued on or before the date two years after such date of enactment, or

(ii) on the date of issuance of the notice of noncompliance under subsection (b)(3), in the case of a source for which such notice is issued after July 1, 1979,

and ending on the date on which such source comes into (or for the purpose of establishing the schedule of payments, is estimated to come into) compliance with such requirement.

(4) Upon making a determination that a source with respect to which a penalty has been paid under this section is in compliance and is maintaining compliance with the applicable requirement, the State (or the Administrator as the case may be) shall review the actual expenditures made by the owner or operator of such source for the purpose of attaining and maintaining compliance, and shall within 180 days after such source comes into compliance—

(A) provide reimbursement with interest (to be paid by the State or Secretary of the Treasury, as the case may be) at appropriate prevailing rates (as determined by the Secretary of the Treasury) for any overpayment by such person, or

(B) assess and collect an additional payment with interest at appropriate prevailing rates (as determined by the Secretary of the Treasury) for any underpayment by such person.

(5) Any person who fails to pay the amount of any penalty with respect to any source under this section on a timely basis shall be required to pay in addition a quarterly nonpayment penalty for each quarter during which such failure to pay persists. Such nonpayment penalty shall be in an amount equal to 20 percent of the aggregate amount of such person's penalties and nonpayment penalties with respect to such source which are unpaid as of the beginning of such quarter.

(e) Any action pursuant to this section, including any objection of the Administrator under the last sentence of subsection (b), shall be considered a final action for purposes of judicial review of any penalty under section 307 of this Act.

(f) Any orders, payments, sanctions, or other requirements under this section shall be in addition to any other permits, orders, payments, sanctions, or other requirements established under this Act, and shall in no way affect any civil or criminal enforcement proceedings brought under any provision of this Act or State or local law.

(g) In the case of any emission limitation or other requirement approved or promulgated by the Administrator under this Act after the enactment of the Clean Air Act Amendments of 1977 which is more stringent than the emission limitation or requirement for the source in effect prior to such approval or promulgation, if any, or where there was no emission limitation or requirement approved or promulgated before enactment of the Clean Air Act Amendments of 1977, the date for imposition of the non-compliance penalty under this section, shall be either July 1, 1979, or the date on which the source is required to be in full compliance with such emission limitation or requirement, whichever is later, but in no event later than three years after the approval or promulgation of such emission limitation or requirement.

[¶ 2121]

Sec. 121. CONSULTATION

In carrying out the requirements of this Act requiring applicable implementation plans to contain—

(1) any transportation controls, air quality maintenance plan requirements or preconstruction review of direct sources of air pollution, or

(2) any measure referred to—

(A) in part D (pertaining to nonattainment requirements), or

(B) in part C (pertaining to prevention of significant deterioration),

and in carrying out the requirements of section 113(d) (relating to certain enforcement orders), the State shall provide a satisfactory process of consultation with general purpose local governments, designated organizations of elected officials of local governments and any Federal land manager having authority over Federal land to which the State plan applies, effective with respect to any such requirement which is adopted more than one year after the date of enactment of the Clean Air Act Amendments of 1977 as part of such plan. Such process shall be in accordance with regulations promulgated by the Administrator to assure adequate consultation. The Administrator shall update as necessary the original regulations required and promulgated under this section (as in effect immediately before the date of enactment of the Clean Air Act Amendments of 1990) to ensure adequate consultation. Only a

general purpose unit of local government, regional agency, or council of governments adversely affected by action of the Administrator approving any portion of a plan referred to in this subsection may petition for judicial review of such action on the basis of a violation of the requirements of this section.

[¶ 2122]

Sec. 122. LISTING OF CERTAIN UNREGULATED POLLUTANTS

(a) Not later than one year after date of enactment of this section (two years for radioactive pollutants) and after notice and opportunity for public hearing, the Administrator shall review all available relevant information and determine whether or not emissions of radioactive pollutants (including source material, special nuclear material, and byproduct material), cadmium, arsenic and polycyclic organic matter into the ambient air will cause, or contribute to, air pollution which may reasonably be anticipated to endanger public health. If the Administrator makes an affirmative determination with respect to any such substance, he shall simultaneously with such determination include such substance in the list published under section 108(a)(1) or 112(b)(1)(A) (in the case of a substance which, in the judgment of the Administrator, causes, or contributes to, air pollution which may reasonably be anticipated to result in an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness), or shall include each category of stationary sources emitting such substance in significant amounts in the list published under section 111(b)(1)(A), or take any combination of such actions.

(b) Nothing in subsection (a) shall be construed to affect the authority of the Administrator to revise any list referred to in subsection (a) with respect to any substance (whether or not enumerated in subsection (a)).

(c)(1) Before listing any source material, special nuclear, or byproduct material (or component or derivative thereof) as provided in subsection (a), the Administrator shall consult with the Nuclear Regulatory Commission.

(2) Not later than six months after listing any such material (or component or derivative thereof) the Administrator and the Nuclear Regulatory Commission shall enter into an interagency agreement with respect to those sources or facilities which are under the jurisdiction of the Commission. This agreement shall, to the maximum extent practicable consistent with this Act, minimize duplication of effort and conserve administrative resources in the establishment, implementation, and enforcement of emission limitations, standards of performance, and other requirements and authorities (substantive and procedural) under this Act respecting the emission of such material (or component or derivative thereof) from such sources or facilities.

(3) In case of any standard or emission limitation promulgated by the Administrator, under this Act or by any State (or the Administrator) under any applicable implementation plan under this Act, if the Nuclear Regulatory Commission determines, after notice and opportunity for public hearing that the application of such standard or limitation to a source or facility within the jurisdiction of the Commission would endanger public health or safety, such standard or limitations shall not apply to

such facilities or sources unless the President determines otherwise within ninety days from the date of such finding.

[¶ 2123]

Sec. 123. STACK HEIGHTS

(a) The degree of emission limitations required for control of any air pollutant under an applicable implementation plan under this title shall not be affected in any manner by—

(1) so much of the stack height of any source as exceeds good engineering practice (as determined under regulations promulgated by the Administrator), or

(2) any other dispersion technique.

The preceding sentence shall not apply with respect to stack heights in existence before the date of enactment of the Clean Air Amendments of 1970 or dispersion techniques implemented before such date. In establishing an emission limitation for coal-fired steam electric generating units which are subject to the provisions of section 118 and which commenced operation before July 1, 1957, the effect of the entire stack height of stacks for which a construction contract was awarded before February 8, 1974, may be taken into account.

(b) For the purpose of this section, the term “dispersion technique” includes any intermittent or supplemental control of air pollutants varying with atmospheric conditions.

(c) Not later than six months after the date of enactment of this section, the Administrator shall, after notice and opportunity for public hearing, promulgate regulations to carry out this section. For purposes of this section, good engineering practice means, with respect to stack heights, the height necessary to insure that emissions from the stack do not result in excessive concentrations of any air pollutant in the immediate vicinity of the source as a result of atmospheric downwash, eddies and wakes which may be created by the source itself, nearby structures or nearby terrain obstacles (as determined by the Administrator). For purposes of this section such height shall not exceed two and a half times the height of such source unless the owner or operator of the source demonstrates, after notice and opportunity for public hearing, to the satisfaction of the Administrator, that a greater height is necessary as provided under the preceding sentence. In no event may the Administrator prohibit any increase in any stack height or restrict in any manner the stack height of any source.

[¶ 2124]

Sec. 124. ASSURANCE OF ADEQUACY OF STATE PLANS

(a) As expeditiously as practicable but not later than one year after date of enactment of this section, each State shall review the provisions of its implementation plan which relate to major fuel burning sources and shall determine—

(1) the extent to which compliance with requirements of such plan is dependent upon the use by major fuel burning stationary sources of petroleum products or natural gas,

(2) the extent to which such plan may reasonably be anticipated to be inadequate to meet the requirements of this Act in such State on a reliable and long-term basis by reason of its dependence upon the use of such fuels, and

(3) the extent to which compliance with the requirements of such plan is dependent upon use of coal or coal derivatives which is not locally or regionally available.

Each State shall submit the results of its review and its determination under this paragraph to the Administrator promptly upon completion thereof.

(b)(1) Not later than eighteen months after the date of enactment of this section, the Administrator shall review the submissions of the States under subsection (a) and shall require each State to revise its plan if, in the judgment of the Administrator, such plan revision is necessary to assure that such plan will be adequate to assure compliance with the requirements of this Act in such State on a reliable and long-term basis, taking into account the actual or potential prohibitions on use of petroleum products or natural gas, or both, under any other authority of law.

(2) Before requiring a plan revision under this subsection, with respect to any State the Administrator shall take into account the report of the review conducted by such State under paragraph (1) and shall consult with the Governor of the State respecting such required revision.

[¶ 2125]

Sec. 125. MEASURES TO PREVENT ECONOMIC DISRUPTION OR UNEMPLOYMENT

(a) After notice and opportunity for a public hearing—

(1) the Governor of any State in which a major fuel burning stationary source referred to in this subsection (or class or category thereof) is located,

(2) the Administrator, or

(3) the President (or his designee),

may determine that action under subsection (b) is necessary to prevent or minimize significant local or regional economic disruption or unemployment which would otherwise result from use by such source (or class or category) of—

(A) coal or coal derivatives other than locally or regionally available coal,

(B) petroleum products,

(C) natural gas, or

(D) any combination of fuels referred to in subparagraphs (A) through (C),

to comply with the requirements of a State implementation plan.

(b) Upon a determination under subsection (a)—

(1) such Governor, with the written consent of the President or his designee,

(2) the President's designee with the written consent of such Governor, or

(3) the President

may by rule or order prohibit any such major fuel burning stationary source (or class or category thereof) from using fuels other than locally or regionally available coal or coal derivatives to comply with implementation plan requirements. In taking any action under this subsection, the Governor, the President, or the President's designee as the case may be, shall take into account, the final cost to the consumer of such an action.

(c) The Governor, in the case of action under subsection (b)(1), or the Administrator, in the case of an action under subsection (b)(2) or (3) shall, by rule or order, require each source to which such action applies to—

(1) enter into long-term contracts of at least ten years in duration (except as the President or his designee may otherwise permit or require by rule or order for good cause) for supplies of regionally available coal or coal derivatives,

(2) enter into contracts to acquire any additional means of emission limitation which the Administrator or the State determines may be necessary to comply with the requirements of this Act while using such coal or coal derivatives as fuel, and

(3) comply with such schedules (including increments of progress), timetables and other requirements as may be necessary to assure compliance with the requirements of this Act.

Requirements under this subsection shall be established simultaneously with, and as a condition of, any action under subsection (b).

(d) This section applies only to existing or new major fuel burning stationary sources—

(1) which have the design capacity to produce 250,000,000 Btu's per hour (or its equivalent), as determined by the Administrator, and

(2) which are not in compliance with the requirements of an applicable implementation plan or which are prohibited from burning oil or natural gas, or both, under any other authority of law.

(e) Except as may otherwise be provided by rule by the State or the Administrator for good cause, any action required to be taken by a major fuel burning stationary source under this section shall not be deemed to constitute a modification for purposes of section 111(a)(2) and (4) of this Act.

(f) For purposes of sections 113 and 120 a prohibition under subsection (b), and a corresponding rule or order under subsection (c), shall be treated as a requirement of section 113. For purposes of any plan (or portion thereof) promulgated under section 110(c), any rule or order under subsection (c) corresponding to a prohibition under subsection (b), shall be treated as a part of such plan. For purposes of section 113, a prohibition under subsection (b), applicable to any source, and a corresponding rule or order under subsection (c), shall be treated as part of the applicable implementation plan for the State in which subject source is located.

(g) The President may delegate his authority under this section to an officer or employee of the United States designated by him on a case-by-case basis or in any other manner he deems suitable.

(h) For the purpose of this section the term “locally or regionally available coal or coal derivatives” means coal or coal derivatives which is, or can in the judgment of the State or the Administrator feasibly be, mined or produced in the local or regional area (as determined by the Administrator) in which the major fuel burning stationary source is located.

¶ 2126]

Sec. 126. INTERSTATE POLLUTION ABATEMENT

(a) Each applicable implementation plan shall—

(1) require each major proposed new (or modified) source—

(A) subject to part C (relating to significant deterioration of air quality) or

(B) which may significantly contribute to levels of air pollution in excess of the national ambient air quality standards in any air quality control region outside the State in which such source intends to locate (or make such modification),

to provide written notice to all nearby States the air pollution levels of which may be affected by such source at least sixty days prior to the date on which commencement of construction is to be permitted by the State providing notice, and

(2) identify all major existing stationary sources which may have the impact described in paragraph (1) with respect to new or modified sources and provide notice to all nearby States of the identity of such sources not later than three months after the date of enactment of the Clean Air Act Amendments of 1977.

(b) Any State or political subdivision may petition the Administrator for a finding that any major source or group of stationary sources emits or would emit any air pollutant in violation of the prohibition of section 110(a)(2)(D)(ii) or this section. Within 60 days after receipt of any petition under this subsection and after public hearing, the Administrator shall make such a finding or deny the petition.

(c) Notwithstanding any permit which may have been granted by the State in which the source is located (or intends to locate), it shall be a violation of this section and the applicable implementation plan in such State—

(1) for any major proposed new (or modified) source with respect to which a finding has been made under subsection (b) to be constructed or to operate in violation of the prohibition of section 110(a)(2)(D)(ii), or

(2) for any major existing source to operate more than three months after such finding has been made with respect to it.

The Administrator may permit the continued operation of a source referred to in paragraph (2) beyond the expiration of such three-month period if such source complies with such emission limitations and compliance schedules (containing increments of progress) as may be provided by the Administrator to bring about compliance with the requirements contained in section 110(a)(2)(D)(ii) as expeditiously as practicable, but in no case later than three years after the date of such finding. Nothing in the preceding sentence shall be construed to preclude any such source from being eligible for an enforcement order under section 113(d) after the expiration of such period during which the Administrator has permitted continuous operation.

[¶ 2127]

Sec. 127. PUBLIC NOTIFICATION

(a) Each State plan shall contain measures which will be effective to notify the public during any calendar on a regular basis of instances or areas in which any national primary ambient air quality standard is exceeded or was exceeded during any portion of the preceding calendar year to advise the public of the health hazards associated with such pollution, and to enhance public awareness of the measures which can be taken to prevent such standards from being exceeded and the ways in which the public can participate in regulatory and other efforts to improve air quality. Such measures may include the posting of warning signs on interstate highway access points to metropolitan areas or television, radio, or press notices or information.

(b) The Administrator is authorized to make grants to States to assist in carrying out the requirements of subsection (a).

[¶ 2128]

Sec. 128. STATE BOARDS

(a) Not later than the date one year after the date of the enactment of this section, each applicable implementation plan shall contain requirements that—

(1) any board or body which approves permits or enforcement orders under this Act shall have at least a majority of members who represent the public interest and do not derive any significant portion of their income from persons subject to permits or enforcement orders under this Act, and

(2) any potential conflicts of interest by members of such board or body or the head of an executive agency with similar powers be adequately disclosed.

A State may adopt any requirements respecting conflicts of interest for such boards or bodies or heads of executive agencies, or any other entities which are more stringent than the requirements of paragraph (1) and (2), and the Administrator shall approve any such more stringent requirements submitted as part of an implementation plan.

[¶ 2129]

Sec. 129. SOLID WASTE COMBUSTION.

(a) NEW SOURCE PERFORMANCE STANDARDS.—

(1) **IN GENERAL.**—(A) The Administrator shall establish performance standards and other requirements pursuant to section 111 and this section for each category of solid waste incineration units. Such standards shall include emissions limitations and other requirements applicable to new units and guidelines (under section 111(d) and this section) and other requirements applicable to existing units.

(B) Standards under section 111 and this section applicable to solid waste incineration units with capacity greater than 250 tons per day combusting municipal waste shall be promulgated not later than 12 months after the date of enactment of the Clean Air Act Amendments of 1990. Nothing in this subparagraph shall alter any schedule for the promulgation of standards applicable to such units under section 111 pursuant to any settlement and consent decree entered by the Administrator before the date of enactment of the Clean Air Act Amendments of 1990: Provided, that, such standards are subsequently modified pursuant to the schedule established in this subparagraph to include each of the requirements of this section.

(C) Standards under section 111 and this section applicable to solid waste incineration units with capacity equal to or less than 250 tons per day combusting municipal waste and units combusting hospital waste, medical waste and infectious waste shall be promulgated not later than 24 months after the date of enactment of the Clean Air Act Amendments of 1990.

(D) Standards under section 111 and this section applicable to solid waste incineration units combusting commercial or industrial waste shall be proposed not later than 36 months after the date of enactment of the Clean Air Act Amendments of 1990 and promulgated not later than 48 months after such date of enactment.

(E) Not later than 18 months after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall publish a schedule for the promulgation of standards under section 111 and this section applicable to other categories of solid waste incineration units.

(2) EMISSIONS STANDARD.—Standards applicable to solid waste incineration units promulgated under section 111 and this section shall reflect the maximum degree of reduction in emissions of air pollutants listed under section (a)(4) that the Administrator, taking into consideration the cost of achieving such emission reduction, and any non-air quality health and environmental impacts and energy requirements, determines is achievable for new or existing units in each category. The Administrator may distinguish among classes, types (including mass-burn, refuse-derived fuel, modular and other types of units), and sizes of units within a category in establishing such standards. The degree of reduction in emissions that is deemed achievable for new units in a category shall not be less stringent than the emissions control that is achieved in practice by the best controlled similar unit, as determined by the Administrator. Emissions standards for existing units in a category may be less stringent than standards for new units in the same category but shall not be less stringent than the average emissions limitation achieved by the best performing 12 percent of units in the category (excluding units which first met lowest achievable emissions rates 18 months before the date such standards are proposed or 30 months before the date such standards are promulgated, whichever is later).

(3) CONTROL METHODS AND TECHNOLOGIES.—Standards under section 111 and this section applicable to solid waste incineration units shall be based on methods and technologies for removal or destruction of pollutants before, during, or after combustion, and shall incorporate for new units siting requirements that minimize, on a site specific basis, to the maximum extent practicable, potential risks to public health or the environment.

(4) NUMERICAL EMISSIONS LIMITATIONS.—The performance standards promulgated under section 111 and this section and applicable to solid waste incineration units shall specify numerical emission limitations for the following substances or mixtures: particulate matter (total and fine), opacity (as appropriate), sulfur dioxide, hydrogen chloride, oxides of nitrogen, carbon monoxide, lead, cadmium, mercury, and dioxins and dibenzofurans. The Administrator may promulgate numerical emissions limitations or provide for the monitoring of postcombustion concentrations of surrogate substances, parameters or periods of residence time in excess of stated temperatures with respect to pollutants other than those listed in this paragraph.

(5) REVIEW AND REVISION.—Not later than 5 years following the initial promulgation of any performance standards and other requirements under this section and section 111 applicable to a category of solid waste incineration units, and at 5 year intervals thereafter, the Administrator shall review, and in accordance with this section and section 111, revise such standards and requirements.

(b) EXISTING UNITS.—

(1) GUIDELINES.—Performance standards under this section and section 111 for solid waste incineration units shall include guidelines

promulgated pursuant to section 111(d) and this section applicable to existing units. Such guidelines shall include, as provided in this section, each of the elements required by subsection (a) (emissions limitations, notwithstanding any restriction in section 111(d) regarding issuance of such limitations), subsection (c) (monitoring), subsection (d) (operator training), subsection (e) (permits), and subsection (h)(4) (residual risk).

(2) **STATE PLANS.**—Not later than 1 year after the Administrator promulgates guidelines for a category of solid waste incineration units, each State in which units in the category are operating shall submit to the Administrator a plan to implement and enforce the guidelines with respect to such units. The State plan shall be at least as protective as the guidelines promulgated by the Administrator and shall provide that each unit subject to the guidelines shall be in compliance with all requirements of this section not later than 3 years after the State plan is approved by the Administrator but not later than 5 years after the guidelines were promulgated. The Administrator shall approve or disapprove any State plan within 180 days of the submission, and if a plan is disapproved, the Administrator shall state the reasons for disapproval in writing. Any State may modify and resubmit a plan which has been disapproved by the Administrator.

(3) **FEDERAL PLAN.**—The Administrator shall develop, implement and enforce a plan for existing solid waste incineration units within any category located in any State which has not submitted an approvable plan under this subsection with respect to units in such category within 2 years after the date on which the Administrator promulgated the relevant guidelines. Such plan shall assure that each unit subject to the plan is in compliance with all provisions of the guidelines not later than 5 years after the date the relevant guidelines are promulgated.

(c) **MONITORING.**—The Administrator shall, as part of each performance standard promulgated pursuant to subsection (a) and section 111, promulgate regulations requiring the owner or operator of each solid waste incineration unit—

(1) to monitor emissions from the unit at the point at which such emissions are emitted into the ambient air (or within the stack, combustion chamber or pollution control equipment, as appropriate) and at such other points as necessary to protect public health and the environment;

(2) to monitor such other parameters relating to the operation of the unit and its pollution control technology as the Administrator determines are appropriate; and

(3) to report the results of such monitoring.

Such regulations shall contain provisions regarding the frequency of monitoring, test methods and procedures validated on solid waste incineration units, and the form and frequency of reports containing the results of monitoring and shall require that any monitoring reports or test results indicating an exceedance of any standard under this section shall be reported separately and in a manner that facilitates review for purposes of enforcement actions. Such

regulations shall require that copies of the results of such monitoring be maintained on file at the facility concerned and that copies shall be made available for inspection and copying by interested members of the public during business hours.

(d) OPERATOR TRAINING.—Not later than 24 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall develop and promote a model State program for the training and certification of solid waste incineration unit operators and high-capacity fossil fuel fired plant operators. The Administrator may authorize any State to implement a model program for the training of solid waste incineration unit operators and high-capacity fossil fuel fired plant operators, if the State has adopted a program which is at least as effective as the model program developed by the Administrator. Beginning on the date 36 months after the date on which performance standards and guidelines are promulgated under subsection (a) and section 111 for any category of solid waste incineration units it shall be unlawful to operate any unit in the category unless each person with control over processes affecting emissions from such unit has satisfactorily completed a training program meeting the requirements established by the Administrator under this subsection.

(e) PERMITS.—Beginning (1) 36 months after the promulgation of a performance standard under subsection (a) and section 111 applicable to a category of solid waste incineration units, or (2) the effective date of a permit program under title V in the State in which the unit is located, whichever is later, each unit in the category shall operate pursuant to a permit issued under this subsection and title V. Permits required by this subsection may be renewed according to the provisions of title V. Notwithstanding any other provision of this Act, each permit for a solid waste incineration unit combusting municipal waste issued under this Act shall be issued for a period of up to 12 years and shall be reviewed every 5 years after date of issuance or reissuance. Each permit shall continue in effect after the date of issuance until the date of termination, unless the Administrator or State determines that the unit is not in compliance with all standards and conditions contained in the permit. Such determination shall be made at regular intervals during the term of the permit, such intervals not to exceed 5 years, and only after public comment and public hearing. No permit for a solid waste incineration unit may be issued under this Act by an agency, instrumentality or person that is also responsible, in whole or part, for the design and construction or operation of the unit. Notwithstanding any other provision of this subsection, the Administrator or the State shall require the owner or operator of any unit to comply with emissions limitations or implement any other measures, if the Administrator or the State determines that emissions in the absence of such limitations or measures may reasonably be anticipated to endanger public health or the environment. The Administrator's determination under the preceding sentence is a discretionary decision.

(f) EFFECTIVE DATE AND ENFORCEMENT.—

(1) NEW UNITS.—Performance standards and other requirements promulgated pursuant to this section and section 111 and applicable to

new solid waste incineration units shall be effective as of the date 6 months after the date of promulgation.

(2) EXISTING UNITS.—Performance standards and other requirements promulgated pursuant to this section and section 111 and applicable to existing solid waste incineration units shall be effective as expeditiously as practicable after approval of a State plan under subsection (b)(2) (or promulgation of a plan by the Administrator under subsection (b)(3)) but in no event later than 3 years after the State plan is approved or 5 years after the date such standards or requirements are promulgated, whichever is earlier.

(3) PROHIBITION.—After the effective date of any performance standard, emission limitation or other requirement promulgated pursuant to this section and section 111, it shall be unlawful for any owner or operator of any solid waste incineration unit to which such standard, limitation or requirement applies to operate such unit in violation of such limitation, standard or requirement or for any other person to violate an applicable requirement of this section.

(4) COORDINATION WITH OTHER AUTHORITIES.—For purposes of sections 111(e), 113, 114, 116, 120, 303, 304, 307 and other provisions for the enforcement of this Act, each performance standard, emission limitation or other requirement established pursuant to this section by the Administrator or a State or local government, shall be treated in the same manner as a standard of performance under section 111 which is an emission limitation.

(g) DEFINITIONS.—For purposes of section 306 of the Clean Air Act Amendments of 1990 and this section only—

(1) SOLID WASTE INCINERATION UNIT.—The term “solid waste incineration unit” means a distinct operating unit of any facility which combusts any solid waste material from commercial or industrial establishments or the general public (including single and multiple residences, hotels, and motels). Such term does not include incinerators or other units required to have a permit under section 3005 of the Solid Waste Disposal Act. The term “solid waste incineration unit” does not include (A) materials recovery facilities (including primary or secondary smelters) which combust waste for the primary purpose of recovering metals, (B) qualifying small power production facilities, as defined in section 3(17)(C) of the Federal Power Act (16 U.S.C. 796(17)(C)), or qualifying cogeneration facilities, as defined in section 3(18)(B) of the Federal Power Act (16 U.S.C. 796(18)(B)), which burn homogeneous waste (such as units which burn tires or used oil, but not including refuse-derived fuel) for the production of electric energy or in the case of qualifying cogeneration facilities which burn homogeneous waste for the production of electric energy and steam or forms of useful energy (such as heat) which are used for industrial, commercial, heating or cooling purposes, or (C) air curtain incinerators provided that such incinerators only burn wood wastes, yard wastes and clean lumber and that such air

curtain incinerators comply with opacity limitations to be established by the Administrator by rule.

(2) **NEW SOLID WASTE INCINERATION UNIT.**—The term “new solid waste incineration unit” means a solid waste incineration unit the construction of which is commenced after the Administrator proposes requirements under this section establishing emissions standards or other requirements which would be applicable to such unit or a modified solid waste incineration unit.

(3) **MODIFIED SOLID WASTE INCINERATION UNIT.**—The term “modified solid waste incineration unit” means a solid waste incineration unit at which modifications have occurred after the effective date of a standard under subsection (a) if (A) the cumulative cost of the modifications, over the life of the unit, exceed 50 per centum of the original cost of construction and installation of the unit (not including the cost of any land purchased in connection with such construction or installation) updated to current costs, or (B) the modification is a physical change in or change in the method of operation of the unit which increases the amount of any air pollutant emitted by the unit for which standards have been established under this section or section 111.

(4) **EXISTING SOLID WASTE INCINERATION UNIT.**—The term “existing solid waste incineration unit” means a solid waste unit which is not a new or modified solid waste incineration unit.

(5) **MUNICIPAL WASTE.**—The term “municipal waste” means refuse (and refuse-derived fuel) collected from the general public and from residential, commercial, institutional, and industrial sources consisting of paper, wood, yard wastes, food wastes, plastics, leather, rubber, and other combustible materials and non-combustible materials such as metal, glass and rock, provided that: (A) the term does not include industrial process wastes or medical wastes that are segregated from such other wastes; and (B) an incineration unit shall not be considered to be combusting municipal waste for purposes of section 111 or this section if it combusts a fuel feed stream, 30 percent or less of the weight of which is comprised, in aggregate, of municipal waste.

(6) **OTHER TERMS.**—The terms “solid waste” and “medical waste” shall have the meanings established by the Administrator pursuant to the Solid Waste Disposal Act.

(h) **OTHER AUTHORITY.**

(1) **STATE AUTHORITY.**—Nothing in this section shall preclude or deny the right of any State or political subdivision thereof to adopt or enforce any regulation, requirement, limitation or standard relating to solid waste incineration units that is more stringent than a regulation, requirement, limitation or standard in effect under this section or under any other provision of this Act.

(2) **OTHER AUTHORITY UNDER THIS ACT.**—Nothing in this section shall diminish the authority of the Administrator or a State to establish any

other requirements applicable to solid waste incineration units under any other authority of law, including the authority to establish for any air pollutant a national ambient air quality standard, except that no solid waste incineration unit subject to performance standards under this section and section 111 shall be subject to standards under section 112(d) of this Act.

(3) **RESIDUAL RISK.**—The Administrator shall promulgate standards under section 112(f) for a category of solid waste incineration units, if promulgation of such standards is required under section 112(f). For purposes of this preceding sentence only—

(A) the performance standards under subsection (a) and section 111 applicable to a category of solid waste incineration units shall be deemed standards under section 112(d)(2), and

(B) the Administrator shall consider and regulate, if required, the pollutants listed under subsection (a)(4) and no others.

(4) **ACID RAIN.**—A solid waste incineration unit shall not be a utility unit as defined in title IV: Provided, that more than 80 per centum of its annual average fuel consumption measured on a Btu basis, during a period or periods to be determined by the Administrator, is from a fuel (including any waste burned as a fuel) other than a fossil fuel.

(5) **REQUIREMENTS OF PARTS C AND D.**—No requirement of an applicable implementation plan under section 165 (relating to construction of facilities in regions identified pursuant to section 107(d)(1)(A)(ii) or (iii)) or under section 172(c)(5) (relating to permits for construction and operation in non-attainment areas) may be used to weaken the standards in effect under this section.

[¶ 2130]

Sec. 130. EMISSION FACTORS.

Within 6 months after enactment of the Clean Air Act Amendments of 1990, and at least every 3 years thereafter, the Administrator shall review and, if necessary, revise, the methods (“emission factors”) used for purposes of this Act to estimate the quantity of emissions of carbon monoxide, volatile organic compounds, and oxides of nitrogen from sources of such air pollutants (including area sources and mobile sources). In addition, the Administrator shall establish emission factors for sources for which no such methods have previously been established by the Administrator. The Administrator shall permit any person to demonstrate improved emissions estimating techniques, and following approval of such techniques, the Administrator shall authorize the use of such techniques. Any such technique may be approved only after appropriate public participation. Until the Administrator has completed the revision required by this section, nothing in this section shall be construed to affect the validity of emission factors established by the Administrator before the date of the enactment of the Clean Air Act Amendments of 1990.

[¶ 2131]

Sec. 131. LAND USE AUTHORITY

Nothing in this Act constitutes an infringement on the existing authority of counties and cities to plan or control land use, and nothing in this Act provides or transfers authority over such land use.

PART B—OZONE PROTECTION—[Repealed]**PART C—PREVENTION OF SIGNIFICANT DETERIORATION OF AIR QUALITY****Subpart 1**

[¶ 2160]

Sec. 160. PURPOSES

The purposes of this part are as follows:

(1) to protect public health and welfare from any actual or potential adverse effect which in the Administrator's judgment may reasonably be anticipated to occur from air pollution or from exposures to pollutants in other media, which pollutants originate as emissions to the ambient air, notwithstanding attainment and maintenance of all national ambient air quality standards;

(2) to preserve, protect, and enhance the air quality in national parks, national wilderness areas, national monuments, national seashores, and other areas of special national or regional natural, recreational, scenic, or historic value;

(3) to insure that economic growth will occur in a manner consistent with the preservation of existing clean air resources;

(4) to assure that emissions from any source in any State will not interfere with any portion of the applicable implementation plan to prevent significant deterioration of air quality for any other State; and

(5) to assure that any decision to permit increased air pollution in any area to which this section applies is made only after careful evaluation of all the consequences of such a decision and after adequate procedural opportunities for informed public participation in the decision making process.

[¶ 2161]

Sec. 161. PLAN REQUIREMENTS

In accordance with the policy of section 101(b)(1), each applicable implementation plan shall contain emission limitations and such other measures as may be necessary, as determined under regulations promulgated under this part, to prevent significant deterioration of air quality in each region (or portion thereof) designated pursuant to section 107 as attainment or unclassifiable.

¶ 2131 Sec. 131

[¶ 2162]

Sec. 162. INITIAL CLASSIFICATIONS

(a) Upon the enactment of this part, all—

- (1) international parks,
- (2) national wilderness areas which exceed 5,000 acres in size,
- (3) national memorial parks which exceed 5,000 acres in size, and

(4) national parks which exceed six thousand acres in size, and which are in existence on the date of enactment of the Clean Air Act Amendments of 1977 shall be class I areas and may not be redesignated. All areas which were redesignated as class I under regulations promulgated before such date of enactment shall be class I areas which may be redesignated as provided in this part. The extent of the areas designated as class I under this section shall conform to any changes in the boundaries of such areas which have occurred subsequent to the date of the enactment of the Clean Air Act Amendments of 1977, or which may occur subsequent to the date of the enactment of the Clean Air Act Amendments of 1990.

(b) All areas in such State designated pursuant to section 107(d) as attainment or unclassifiable which are not established as class I under subsection (a) shall be class II areas unless redesignated under section 164.

[¶ 2163]

Sec. 163. INCREMENTS AND CEILINGS

(a) In the case of sulfur oxide and particulate matter, each applicable implementation plan shall contain measures assuring that maximum allowable increases over baseline concentrations of, and maximum allowable concentrations of, such pollutant shall not be exceeded. In the case of any maximum allowable increase (except an allowable increase specified under section 165(d)(2)(C)(iv)) for a pollutant based on concentrations permitted under national ambient air quality standards for any period other than an annual period, such regulations shall permit such maximum allowable increase to be exceeded during one such period per year.

(b)(1) For any class I area, the maximum allowable increase in concentrations of sulfur dioxide and particulate matter over the baseline concentration of such pollutants shall not exceed the following amounts:

<i>Pollutant</i>	<i>Maximum allowable increase (in micrograms per cubic meter)</i>
Particulate matter:	
Annual geometric mean	5
Twenty-four-hour maximum	10
Sulfur dioxide:	
Annual arithmetic mean	2
Twenty-four-hour maximum	5
Three-hour maximum	25

(2) For any class II area, the maximum allowable increase in concentrations of sulfur dioxide and particulate matter over the baseline concentration of such pollutants shall not exceed the following amounts:

<i>Pollutant</i>	<i>Maximum allowable increase (in micrograms per cubic meter)</i>
Particulate matter:	
Annual geometric mean	19
Twenty-four-hour maximum	37
Sulfur dioxide:	
Annual arithmetic mean	20
Twenty-four-hour maximum	91
Three-hour maximum	512

(3) For any class III area, the maximum allowable increase in concentrations of sulfur dioxide and particulate matter over the baseline concentration of such pollutants shall not exceed the following amounts:

<i>Pollutant</i>	<i>Maximum allowable increase (in micrograms per cubic meter)</i>
Particulate matter:	
Annual geometric mean	37
Twenty-four-hour maximum	75
Sulfur dioxide:	
Annual arithmetic mean	40
Twenty-four-hour maximum	182
Three-hour maximum	700

(4) The maximum allowable concentration of any air pollutant in any area to which this part applies shall not exceed a concentration for such pollutant for each period of exposure equal to—

(A) the concentration permitted under the national secondary ambient air quality standard, or

(B) the concentration permitted under the national primary ambient air quality standard,

whichever concentration is lowest for such pollutant for such period of exposure.

(c)(1) In the case of any State which has a plan approved by the Administrator for purposes of carrying out this part, the Governor of such State may, after notice and opportunity for public hearing, issue orders or promulgate rules providing that for purposes of determining compliance with the maximum allowable increases in ambient concentrations of an air pollutant, the following concentrations of such pollutant shall not be taken into account:

(A) concentrations of such pollutant attributable to the increase in emissions from stationary sources which have converted from the use of petroleum products, or natural gas, or both, by reason of an order which is in effect under the provisions of sections 2(a) and (b) of the Energy Supply and Environmental Coordination Act of 1974 (or any subsequent legislation which supersedes such provisions)

over the emissions from such sources before the effective date of such order.

(B) the concentrations of such pollutant attributable to the increase in emissions from stationary sources which have converted from using natural gas by reason of a natural gas curtailment pursuant to a natural gas curtailment plan in effect pursuant to the Federal Power Act over the emissions from such sources before the effective date of such plan,

(C) concentrations of particulate matter attributable to the increase in emissions from construction or other temporary emission-related activities, and

(D) the increase in concentrations attributable to new sources outside the United States over the concentrations attributable to existing sources which are included in the baseline concentration determined in accordance with section 169(4).

(2) No action taken with respect to a source under paragraph 1(A) or (1)(B) shall apply more than five years after the effective date of the order referred to in paragraph (1)(A) or the plan referred to in paragraph (1)(B), whichever is applicable. If both such order and plan are applicable, no such action shall apply more than five years after the later of such effective dates.

(3) No action under this subsection shall take effect unless the Governor submits the order or rule providing for such exclusion to the Administrator and the Administrator determines that such order or rule is in compliance with the provisions of this subsection.

[¶ 2164]

Sec. 164. AREA REDESIGNATION

(a) Except as otherwise provided under subsection (c), a State may redesignate such areas as it deems appropriate as class I areas. The following areas may be redesignated only as class I or II:

(1) an area which exceeds ten thousand acres in size and is a national monument, a national primitive area, a national preserve, a national recreation area, a national wild and scenic river, a national wildlife refuge, a national lakeshore or seashore, and

(2) a national park or national wilderness area established after the date of enactment of this Act which exceeds ten thousand acres in size.

The extent of the areas referred to in paragraph (1) and (2) shall conform to any changes in the boundaries of such areas which have occurred subsequent to the date of the enactment of the Clean Air Act Amendments of 1977, or which may occur subsequent to the date of the enactment of the Clean Air Act Amendments of 1990. Any area (other than an area referred to in paragraph

(1) or (2) or an area established as class I under the first sentence of section 162(a)) may be redesignated by the State as class III if—

(A) such redesignation has been specifically approved by the Governor of the State, after consultation with the appropriate Committees of the legislature if it is in session or with the leadership of the legislature if it is not in session (unless State law provides that such redesignation must be specifically approved by State legislation) and if general purpose units of local government representing a majority of the residents of the area so redesignated enact legislation (including for such units of local government resolutions where appropriate) concurring in the State's redesignation;

(B) such redesignation will not cause, or contribute to, concentrations of any air pollutant which exceed any maximum allowable increase or maximum allowable concentration permitted under the classification of any other area; and

(C) such redesignation otherwise meets the requirements of this part.

Subparagraph (A) of this paragraph shall not apply to area redesignations by Indian tribes.

(b)(1)(A) Prior to redesignation of any area under this part, notice shall be afforded and public hearings shall be conducted in areas proposed to be redesignated and in areas which may be affected by the proposed redesignation. Prior to any such public hearing a satisfactory description and analysis of the health, environmental, economic, social, and energy effects of the proposed redesignation shall be prepared and made available for public inspection and prior to any such redesignation, the description and analysis of such effects shall be reviewed and examined by the redesignating authorities.

(B) Prior to the issuance of notice under subparagraph (A) respecting the redesignation of any area under this subsection, if such area includes any Federal lands, the State shall provide written notice to the appropriate Federal land manager and afford adequate opportunity (but not in excess of 60 days) to confer with the State respecting the intended notice of redesignation and to submit written comments and recommendations with respect to such intended notice of redesignation. In redesignating any area under this section with respect to which any Federal land manager has submitted written comments and recommendations, the State shall publish a list of any inconsistency between such redesignation and such recommendations and an explanation of such inconsistency (together with the reasons for making such redesignation against the recommendation of the Federal land manager).

(C) The Administrator shall promulgate regulations not later than six months after date of enactment of this part, to assure, insofar as practicable, that prior to any public hearing on redesignation of any area, there shall be available for public inspection any specific plans for any new or modified major emitting facility which

may be permitted to be constructed and operated only if the area in question is designated or redesignated as class III.

(2) The Administrator may disapprove the redesignation of any area only if he finds, after notice and opportunity for public hearing, that such redesignation does not meet the procedural requirements of this section or is inconsistent with the requirements of section 162(a) or of subsection (a) of this section. If any such disapproval occurs, the classification of the area shall be that which was in effect prior to the redesignation which was disapproved.

(c) Lands within the exterior boundaries of reservations of federally recognized Indian tribes may be redesignated only by the appropriate Indian governing body. Such Indian governing body shall be subject in all respect to the provisions of subsection (e).

(d) The Federal Land Manager shall review all national monuments, primitive areas, and national preserves, and shall recommend any appropriate areas for redesignation as class I where air quality related values are important attributes of the area. The Federal Land Manager shall report such recommendations, within supporting analysis, to the Congress and the affected States within one year after enactment of this section. The Federal Land Manager shall consult with the appropriate States before making such recommendations.

(e) If any State affected by the redesignation of an area by an Indian tribe or any Indian tribe affected by the redesignation of an area by a State disagrees with such redesignation of any area, or if a permit is proposed to be issued for any new major emitting facility proposed for construction in any State which the Governor of an affected State or governing body of an affected Indian tribe determines will cause or contribute to a cumulative change in air quality in excess of that allowed in this part within the affected State or tribal reservation, the Governor or Indian ruling body may request the Administrator to enter into negotiations with the parties involved to resolve such dispute. If requested by any State or Indian tribe involved, the Administrator shall make a recommendation to resolve the dispute and protect the air quality related values of the lands involved. If the parties involved do not reach agreement, the Administrator shall resolve the dispute and his determination, or the results of agreements reached through other means, shall become part of the applicable plan and shall be enforceable as part of such plan. In resolving such disputes relating to area redesignation, the Administrator shall consider the extent to which the lands involved are of sufficient size to allow effective air quality management or have air quality related values of such an area.

[¶ 2165]

Sec. 165. PRECONSTRUCTION REQUIREMENTS

(a) No major emitting facility on which construction is commenced after the date of the enactment of this part may be constructed in any area to which this part applies unless—

(1) a permit has been issued for such proposed facility in accordance with this part setting forth emission limitations for such facility which conform to the requirements of this part;

(2) the proposed permit has been subject to a review in accordance with this section, the required analysis has been conducted in accordance with regulations promulgated by the Administrator, and a public hearing has been held with opportunity for interested persons including representatives of the Administrator to appear and submit written or oral presentations on the air quality impact of such source, alternatives thereto, control technology requirements, and other appropriate considerations;

(3) the owner or operator of such facility demonstrates, as required pursuant to section 110(j), that emissions from construction or operation of such facility will not cause, or contribute to, air pollution in excess of any (A) maximum allowable increase or maximum allowable concentration for any pollutant in any area to which this part applies more than one time per year, (B) national ambient air quality standard in any air quality control region, or (C) any other applicable emission standard or standard of performance under this Act;

(4) the proposed facility is subject to the best available control technology for each pollutant subject to regulation under this Act emitted from, or which results from, such facility;

(5) the provisions of subsection (d) with respect to protection of class I areas have been complied with for such facility;

(6) there has been an analysis of any air quality impacts projected for the area as a result of growth associated with such facility;

(7) the person who owns or operates, or proposes to own or operate, a major emitting facility for which a permit is required under this part agrees to conduct such monitoring as may be necessary to determine the effect which emissions from any such facility may have, or is having, on air quality in any area which may be affected by emissions from such source; and

(8) in the case of a source which proposes to construct in a class III area, emissions from which would cause or contribute to exceeding the maximum allowable increments applicable in a class II area and where no standard under section 111 of this Act has been promulgated subsequent to enactment of the Clean Air Act Amendments of 1977, for such source category, the Administrator has approved the determination of best available technology as set forth in the permit.

(b) The demonstration pertaining to maximum allowable increases required under subsection (a)(3) shall not apply to maximum allowable increases for class II areas in the case of an expansion or modification of a major emitting facility which is in existence on the date of enactment of the Clean Air Act Amendments of 1977, whose allowable emissions of air pollutants, after compliance with subsection (a)(4), will be less than fifty tons per

year and for which the owner or operator of such facility demonstrates that emissions of particulate matter and sulfur oxides will not cause or contribute to ambient air quality levels in excess of the national secondary ambient air quality standard for either of such pollutants.

(c) Any completed permit application under section 110 for a major emitting facility in any area to which this part applies shall be granted or denied not later than one year after the date of filing of such completed application.

(d)(1) Each State shall transmit to the Administrator a copy of each permit application relating to a major emitting facility received by such State and provide notice to the Administrator of every action related to the consideration of such permit.

(2)(A) The Administrator shall provide notice of the permit application to the Federal Land Manager and the Federal official charged with direct responsibility for management of any lands within a class I area which may be affected by emissions from the proposed facility.

(B) The Federal Land Manager and the Federal official charged with direct responsibility for management of such lands shall have an affirmative responsibility to protect the air quality related values (including visibility) of any such lands within a class I area and to consider, in consultation with the Administrator, whether a proposed major emitting facility will have an adverse impact on such values.

(C)(i) In any case where the Federal official charged with direct responsibility for management of any lands within a class I area or the Federal Land Manager of such lands, or the Administrator, or the Governor of an adjacent State containing such a class I area files a notice alleging that emissions from a proposed major emitting facility may cause or contribute to a change in the air quality in such area and identifying the potential adverse impact of such change, a permit shall not be issued unless the owner or operator of such facility demonstrates that emissions of particulate matter and sulfur dioxide will not cause or contribute to concentrations which exceed the maximum allowable increases for a class I area.

(ii) In any case where the Federal Land Manager demonstrates to the satisfaction of the State that the emissions from such facility will have an adverse impact on the air quality-related values (including visibility) of such lands, notwithstanding the fact that the change in air quality resulting from emissions from such facility will not cause or contribute to concentrations which exceed the maximum allowable increases for a class I area, a permit shall not be issued.

(iii) In any case where the owner or operator of such facility demonstrates to the satisfaction of the Federal Land Manager, and the Federal Land Manager so certifies, that the emissions from such facility will have no adverse impact on the air quality-related values of such lands (including visibility),

notwithstanding the fact that the change in air quality resulting from emissions from such facility will cause or contribute to concentrations which exceed the maximum allowable increases for class I areas, the State may issue a permit.

(iv) In the case of a permit issued pursuant to clause (iii), such facility shall comply with such emission limitations under such permit as may be necessary to assure that emissions of sulfur oxides and particulates from such facility will not cause or contribute to concentrations of such pollutant which exceed the following maximum allowable increases over the baseline concentration for such pollutants:

Maximum allowable increase (in micrograms per cubic meter)	
Particulate matter:	
Annual geometric mean	19
Twenty-four-hour maximum	37
Sulfur dioxide:	
Annual arithmetic mean	20
Twenty-four-hour maximum	91
Three-hour maximum	325

(D)(i) In any case where the owner or operator of a proposed major emitting facility who has been denied a certification under subparagraph (C)(iii) demonstrates to the satisfaction of the Governor, after notice and public hearing, and the Governor finds, that the facility cannot be constructed by reason of any maximum allowable increase for sulfur dioxide for periods of twenty-four hours or less applicable to any class I area and, in the case of Federal mandatory class I areas, that a variance under this clause will not adversely affect the air quality related values of the area (including visibility), the Governor, after consideration of the Federal Land Manager's recommendation (if any) and subject to his concurrence, may grant a variance from such maximum allowable increase. If such variance is granted, a permit may be issued to such source pursuant to the requirements of this subparagraph.

(ii) In any case in which the Governor recommends a variance under this subparagraph in which the Federal Land Manager does not concur, the recommendations of the Governor and the Federal Land Manager shall be transmitted to the President. The President may approve the Governor's recommendation if he finds that such variance is in the national interest. No Presidential finding shall be reviewable in any court. The variance shall take effect if the President approves the Governor's recommendations. The President shall approve or disapprove such recommendation within ninety days after his receipt of the recommendations of the Governor and the Federal Land Manager.

(iii) In the case of a permit issued pursuant to this subparagraph, such facility shall comply with such emission limita-

tions under such permit as may be necessary to assure that emissions of sulfur oxides from such facility will not (during any day on which the otherwise applicable maximum allowable increases are exceeded) cause or contribute to concentrations which exceed the following maximum allowable increases for such areas over the baseline concentration for such pollutant and to assure that such emissions will not cause or contribute to concentrations which exceed the otherwise applicable maximum allowable increases for periods of exposure of 24 hours or less on more than 18 days during any annual period:

MAXIMUM ALLOWABLE INCREASE

[In micrograms per cubic meter]

<i>Period of exposure</i>	<i>High terrain areas</i>	<i>Low terrain areas</i>
24-hr maximum	36	62
3-hr maximum	130	221

(iv) For purposes of clause (iii), the term "high terrain area" means with respect to any facility, any area having an elevation of 900 feet or more above the base of the stack of such facility, and the term "low terrain area" means any area other than a high terrain area.

(e)(1) The review provided for in subsection (a) shall be preceded by an analysis in accordance with regulations of the Administrator, promulgated under this subsection, which may be conducted by the State (or any general purpose unit of local government) or by the major emitting facility applying for such permit, of the ambient air quality at the proposed site and in areas which may be affected by emissions from such facility for each pollutant subject to regulation under this Act which will be emitted from such facility.

(2) Effective one year after date of enactment of this part, the analysis required by this subsection shall include continuous air quality monitoring data gathered for purposes of determining whether emissions from such facility will exceed the maximum allowable increases or the maximum allowable concentration permitted under this part. Such data shall be gathered over a period of one calendar year preceding the date of application for a permit under this part unless the State, in accordance with regulations promulgated by the Administrator, determines that a complete and adequate analysis for such purposes may be accomplished in a shorter period. The results of such analysis shall be available at the time of the public hearing on the application for such permit.

(3) The Administrator shall within six months after the date of enactment of this part promulgate regulations respecting the analysis required under this subsection which regulations—

(A) shall not require the use of any automatic or uniform buffer zone or zones,

(B) shall require an analysis of the ambient air quality, climate and meteorology, terrain, soils and vegetation, and visibility at the

site of the proposed major emitting facility and in the area potentially affected by the emissions from such facility for each pollutant regulated under this Act which will be emitted from, or which results from the construction or operation of, such facility, the size and nature of the proposed facility, the degree of continuous emission reduction which could be achieved by such facility, and such other factors as may be relevant in determining the effect of emissions from a proposed facility on any air quality control region,

(C) shall require the results of such analysis shall be available at the time of the public hearing on the application for such permit, and

(D) shall specify with reasonable particularity each air quality model or models to be used under specified sets of conditions for purposes of this part.

Any model or models designated under such regulations may be adjusted upon a determination, after notice and opportunity for public hearing, by the Administrator that such adjustment is necessary to take into account unique terrain or meteorological characteristics of an area potentially affected by emissions from a source applying for a permit required under this part.

[¶ 2166]

Sec. 166. OTHER POLLUTANTS

(a) In the case of the pollutants hydrocarbons, carbon monoxide, photochemical oxidants, and nitrogen oxides, the Administrator shall conduct a study and not later than two years after the date of enactment of this part, promulgate regulations to prevent the significant deterioration of air quality which would result from the emissions of such pollutants. In the case of pollutants for which national ambient air quality standards are promulgated after the date of the enactment of this part, he shall promulgate such regulations not more than 2 years after the date of promulgation of such standards.

(b) Regulations referred to in subsection (a) shall become effective one year after the date of promulgation. Within 21 months after such date of promulgation such plan revision shall be submitted to the Administrator who shall approve or disapprove the plan within 25 months after such date of promulgation in the same manner as required under section 110.

(c) Such regulations shall provide specific numerical measures against which permit applications may be evaluated, a framework for stimulating improved control technology, protection of air quality values, and fulfill the goals and purposes set forth in section 101 and section 160.

(d) The regulations of the Administrator under subsection (a) shall provide specific measures at least as effective as the increments established in section 163 to fulfill such goals and purposes, and may contain air quality increments, emission density requirements, or other measures.

(e) With respect to any air pollutant for which a national ambient air quality standard is established other than sulfur oxides or particulate matter, an area classification plan shall not be required under this section if the implementation plan adopted by the State and submitted for the Administrator's approval or promulgated by the Administrator under section 110(c) contains other provisions which when considered as a whole, the Administrator finds will carry out the purposes in section 160 at least as effectively as an area classification plan for such pollutant. Such other provisions referred to in the preceding sentence need not require the establishment of maximum allowable increases with respect to such pollutant for any area to which this section applies.

(f) **PM-10 INCREMENTS.**—The Administrator is authorized to substitute, for the maximum allowable increases in particulate matter specified in section 163(b) and section 165(d)(2)(C)(iv), maximum allowable increases in particulate matter with an aerodynamic diameter smaller than or equal to 10 micrometers. Such substituted maximum allowable increases shall be of equal stringency in effect as those specified in the provisions for which they are substituted. Until the Administrator promulgates regulations under the authority of this subsection, the current maximum allowable increases in concentrations of particulate matter shall remain in effect.

[¶ 2167]

Sec. 167. ENFORCEMENT

The Administrator shall, and a State may, take such measures, including issuance of an order, or seeking injunctive relief, as necessary to prevent the construction or modification of a major emitting facility which does not conform to the requirements of this part, or which is proposed to be constructed in any area designated pursuant to section 107(d) as attainment or unclassifiable and which is not subject to an implementation plan which meets the requirements of this part.

[¶ 2168]

Sec. 168. PERIOD BEFORE PLAN APPROVAL

(a) Until such time as an applicable implementation plan is in effect for any area, which plan meets the requirements of this part to prevent significant deterioration of air quality with respect to any air pollutant, applicable regulations under this Act prior to enactment of this part shall remain in effect to prevent significant deterioration of air quality in any such area for any such pollutant except as otherwise provided in subsection (b).

(b) If any regulation in effect prior to enactment of this part to prevent significant deterioration of air quality would be inconsistent with the requirements of section 162(a), section 163(b) or section 164(a), then such regulations shall be deemed amended so as to conform with such requirements. In the case of a facility on which construction was commenced (in accordance with the definition of "commenced" in section 169(2)) after June 1, 1975, and prior to the enactment of the Clean Air Act Amendments of 1977, the review and permitting of such facility shall be in accordance with the regulations for the

prevention of significant deterioration in effect prior to the enactment of the Clean Air Act Amendments of 1977.

[¶ 2169]

Sec. 169. DEFINITIONS

For purposes of this part—

(1) The term “major emitting facility” means any of the following stationary sources of air pollutants which emit, or have the potential to emit, one hundred tons per year or more of any air pollutant from the following types of stationary sources: fossil-fuel fired steam electric plants of more than two hundred and fifty million British thermal units per hour heat input, coal cleaning plants (thermal dryers), kraft pulp mills, Portland Cement plants, primary zinc smelters, iron and steel mill plants, primary aluminum ore reduction plants, primary copper smelters, municipal incinerators capable of charging more than fifty tons of refuse per day, hydrofluoric, sulfuric, and nitric acid plants, petroleum refineries, lime plants, phosphate rock processing plants, coke oven batteries, sulfur recovery plants, carbon black plants (furnace process), primary lead smelters, fuel conversion plants, sintering plants, secondary metal production facilities, chemical process plants, fossil-fuel boilers of more than two hundred and fifty million British thermal units per hour heat input, petroleum storage and transfer facilities with a capacity exceeding three hundred thousand barrels, taconite ore processing facilities, glass fiber processing plants, charcoal production facilities. Such term also includes any other source with the potential to emit two hundred and fifty tons per year or more of any air pollutant. This term shall not include new or modified facilities which are nonprofit health or education institutions which have been exempted by the State.

(2)(A) The term “commenced” as applied to construction of a major emitting facility means that the owner or operator has obtained all necessary preconstruction approvals or permits required by Federal, State, or local air pollution emissions and air quality laws or regulations and either has (i) begun, or caused to begin, a continuous program of physical on-site construction of the facility or (ii) entered into binding agreements or contractual obligations, which cannot be canceled or modified without substantial loss to the owner or operator, to undertake a program of construction of the facility to be completed within a reasonable time.

(B) The term “necessary preconstruction approvals or permits” means those permits or approvals, required by the permitting authority as a precondition to undertaking any activity under clauses (i) or (ii) of subparagraph (A) of this paragraph.

(C) The term “construction” when used in connection with any source or facility, includes the modification (as defined in section 111(a)) of any source or facility.

(3) The term “best available control technology” means an emission limitation based on the maximum degree of reduction of each pollutant subject to regulation under this Act emitted from or which results from any major emitting facility, which the permitting authority, on a case-by-case basis, taking into account energy, environmental, and economic impacts and other costs, determines is achievable for such facility through application of production processes and available methods, systems, and techniques, including fuel cleaning, clean fuels, or treatment or innovative fuel combustion techniques for control of each such pollutant. In no event shall application of “best available control technology” result in emissions of any pollutants which will exceed the emissions allowed by any applicable standard established pursuant to section 111 or 112 of this Act. Emissions from any source utilizing clean fuels, or any other means, to comply with this paragraph shall not be allowed to increase above levels that would have been required under this paragraph as it existed prior to enactment of the Clean Air Act Amendments 1990.

(4) The term “baseline concentration” means, with respect to a pollutant, the ambient concentration levels which exist at the time of the first application for a permit in an area subject to this part, based on air quality data available in the Environmental Protection Agency or a State air pollution control agency and on such monitoring data as the permit applicant is required to submit. Such ambient concentration levels shall take into account all projected emissions in, or which may affect, such area from any major emitting facility on which construction commenced prior to January 6, 1975, but which has not begun operation by the date of the baseline air quality concentration determination. Emissions of sulfur oxides and particulate matter from any major emitting facility on which construction commenced after January 6, 1975, shall not be included in the baseline and shall be counted against the maximum allowable increases in pollutant concentrations established under this part.

Subpart 2

[¶ 2169A]

Sec. 169A. VISIBILITY PROTECTION FOR FEDERAL CLASS I AREAS

(a)(1) Congress hereby declares as a national goal the prevention of any future, and the remedying of any existing impairment of visibility in mandatory class I Federal areas which impairment results from man-made air pollution.

(2) Not later than six months after the date of the enactment of this section, the Secretary of the Interior in consultation with other Federal land managers shall review all mandatory class I Federal areas and identify those where visibility is an important value of the area. From time to time the Secretary of the Interior may revise such identifications. Not later than one year after such date of enactment, the Administrator shall, after consultation with the Secretary of the Interior, promulgate a

list of mandatory class I Federal areas in which he determines visibility is an important value.

(3) Not later than eighteen months after the date of enactment of this section, the Administrator shall complete a study and report to Congress on available methods for implementing the national goal set forth in paragraph (1). Such report shall include recommendations for—

(A) methods for identifying, characterizing, determining, quantifying, and measuring visibility impairment in Federal areas referred to in paragraph (1), and

(B) modeling techniques (or other methods) for determining the extent to which manmade air pollution may reasonably be anticipated to cause or contribute to such impairment, and

(C) methods for preventing and remedying such manmade air pollution and resulting visibility impairment.

Such report shall also identify the classes or categories of sources and the types of air pollutants which, alone or in conjunction with other sources or pollutants, may reasonably be anticipated to cause or contribute significantly to impairment of visibility.

(4) Not later than twenty-four months after the date of enactment of this section, and after notice and public hearing, the Administrator shall promulgate regulations to assure (A) reasonable progress toward meeting the national goal specified in paragraph (1), and (B) compliance with the requirements of this section.

(b) Regulations under subsection (a)(4) shall—

(1) provide guidelines to the States, taking into account the recommendations under subsection (a)(3) on appropriate techniques and methods for implementing this section (as provided in subparagraphs (A) through (C) of such subsection (a)(3)), and

(2) require each applicable implementation plan for a State in which any area listed by the Administrator under subsection (a)(2) is located (or for a State the emissions from which may reasonably be anticipated to cause or contribute to any impairment of visibility in any such area) to contain such emission limits, schedules of compliance and other measures as may be necessary to make reasonable progress toward meeting the national goal specified in subsection (a), including—

(A) except as otherwise provided pursuant to subsection (c), a requirement that each major stationary source which is in existence on the date of enactment of this section, but which has not been in operation for more than fifteen years as of such date, and which, as determined by the State (or the Administrator in the case of a plan promulgated under section 110(c)) emits any air pollutant which may reasonably be anticipated to cause or contribute to any impairment of visibility in any such area, shall procure, install, and operate, as expeditiously as practicable (and maintain thereafter) the best available retrofit technology, as determined by the State (or

the Administrator in the case of a plan promulgated under section 110(c)) for controlling emissions from such source for the purpose of eliminating or reducing any such impairment, and

(B) a long-term (ten to fifteen years) strategy for making reasonable progress toward meeting the national goal specified in subsection (a).

In the case of a fossil-fuel fired generating powerplant having a total generating capacity in excess of 750 megawatts, the emission limitations required under this paragraph shall be determined pursuant to guidelines, promulgated by the Administrator under paragraph (1).

(c)(1) The Administrator may, by rule, after notice and opportunity for public hearing, exempt any major stationary source from the requirement of subsection (b)(2)(A), upon his determination that such source does not or will not, by itself or in combination with other sources, emit any air pollutant which may reasonably be anticipated to cause or contribute to a significant impairment of visibility in any mandatory class I Federal area.

(2) Paragraph (1) of this subsection shall not be applicable to any fossil-fuel fired powerplant with total design capacity of 750 megawatts or more, unless the owner or operator of any such plant demonstrates to the satisfaction of the Administrator that such powerplant is located at such distance from all areas listed by the Administrator under subsection (a)(2) that such powerplant does not or will not, by itself or in combination with other sources, emit any air pollutant which may reasonably be anticipated to cause or contribute to significant impairment of visibility in any such area.

(3) An exemption under this subsection shall be effective only upon concurrence by the appropriate Federal land manager or managers with the Administrator's determination under this subsection.

(d) Before holding the public hearing on the proposed revision of an applicable implementation plan to meet the requirements of this section, the State (or the Administrator, in the case of a plan promulgated under section 110(c)) shall consult in person with the appropriate Federal land manager or managers and shall include a summary of the conclusions and recommendations of the Federal land managers in the notice to the public.

(e) In promulgating regulations under this section, the Administrator shall not require the use of any automatic or uniform buffer zone or zones.

(f) For purposes of section 304(a)(2), the meeting of the national goal specified in subsection (a)(1) by any specific date or dates shall not be considered a "nondiscretionary duty" of the Administrator.

(g) For the purpose of this section—

(1) in determining reasonable progress there shall be taken into consideration the cost of compliance, the time necessary for compliance, and the energy and nonair quality environmental impacts of compliance, and the remaining useful life of any existing source subject to such requirements;

(2) in determining best available retrofit technology the State (or the Administrator in determining emission limitations which reflect such technology) shall take into consideration the costs of compliance, the energy and nonair quality environmental impacts of compliance, any existing pollution control technology in use at the source, the remaining useful life of the source, and the degree of improvement in visibility which may reasonably be anticipated to result from the use of such technology;

(3) the term "man-made air pollution" means air pollution which results directly or indirectly from human activities;

(4) the term "as expeditiously as practicable" means as expeditiously as practicable but in no event later than five years after the date of approval of a plan revision under this section (or the date of promulgation of such a plan revision in the case of action by the Administrator under section 110(c) for purposes of this section);

(5) the term "mandatory class I Federal areas" means Federal areas which may not be designated as other than class I under this part;

(6) the terms "visibility impairment" and "impairment of visibility" shall include reduction in visual range and atmospheric discoloration; and

(7) the term "major stationary source" means the following types of stationary sources with the potential to emit 250 tons or more of any pollutant: fossil-fuel fired steam electric plants of more than 250 million British thermal units per hour heat input, coal cleaning plants (thermal dryers), kraft pulp mills, Portland Cement plants, primary zinc smelters, iron and steel mill plants, primary aluminum ore reduction plants, primary copper smelters, municipal incinerators capable of charging more than 250 tons of refuse per day, hydrofluoric, sulfuric, and nitric acid plants, petroleum refineries, lime plants, phosphate rock processing plants, coke oven batteries, sulfur recovery plants, carbon black plants (furnace process), primary lead smelters, fuel conversion plants, sintering plants, secondary metal production facilities, chemical process plants, fossil-fuel boilers of more than 250 million British thermal units per hour heat input, petroleum storage and transfer facilities with a capacity exceeding 300,000 barrels, taconite ore processing facilities, glass fiber processing plants, charcoal production facilities.

[¶ 2169B]

Sec. 169B. VISIBILITY.

(a) STUDIES.—(1) The Administrator, in conjunction with the National Park Service and other appropriate Federal agencies, shall conduct research to identify and evaluate sources and source regions of both visibility impairment and regions that provide predominantly clean air in class I areas. A total of \$8,000,000 per year for 5 years is authorized to be appropriated for the Environmental Protection Agency and the other Federal agencies to conduct this research. The research shall include—

¶ 2169B Sec. 169B

(A) expansion of current visibility related monitoring in class I areas;

(B) assessment of current sources of visibility impairing pollution and clean air corridors;

(C) adaptation of regional air quality models for the assessment of visibility;

(D) studies of atmospheric chemistry and physics of visibility.

(2) Based on the findings available from the research required in subsection (a)(1) as well as other available scientific and technical data, studies, and other available information pertaining to visibility source-receptor relationships, the Administrator shall conduct an assessment and evaluation that identifies, to the extent possible, sources and source regions of visibility impairment including natural sources as well as source regions of clear air for class I areas. The Administrator shall produce interim findings from this study within 3 years after enactment of the Clean Air Act Amendments of 1990.

(b) IMPACTS OF OTHER PROVISIONS.—Within 24 months after enactment of the Clean Air Act Amendments of 1990, the Administrator shall conduct an assessment of the progress and improvements in visibility in class I areas that are likely to result from the implementation of the provisions of the Clean Air Act Amendments of 1990 other than the provisions of this section. Every 5 years thereafter the Administrator shall conduct an assessment of actual progress and improvement in visibility in class I areas. The Administrator shall prepare a written report on each assessment and transmit copies of these reports to the appropriate committees of Congress.

(c) ESTABLISHMENT OF VISIBILITY TRANSPORT REGIONS AND COMMISSIONS.—

(1) AUTHORITY TO ESTABLISH VISIBILITY TRANSPORT REGIONS.—Whenever, upon the Administrator's motion or by petition from the Governors of at least two affected States, the Administrator has reason to believe that the current or projected interstate transport of air pollutants from one or more States contributes significantly to visibility impairment in class I areas located in the affected States, the Administrator may establish a transport region for such pollutants that includes such States. The Administrator, upon the Administrator's own motion or upon petition from the Governor of any affected State, or upon the recommendations of a transport commission established under subsection (b) of this section may—

(A) add any State or portion of a State to a visibility transport region when the Administrator determines that the interstate transport of air pollutants from such State significantly contributes to visibility impairment in a class I area located within the transport region, or

(B) remove any State or portion of a State from the region whenever the Administrator has reason to believe that the control of emissions in that State or portion of the State pursuant to this

section will not significantly contribute to the protection or enhancement of visibility in any class I area in the region.

(2) **VISIBILITY TRANSPORT COMMISSIONS.**—Whenever the Administrator establishes a transport region under subsection (c)(1), the Administrator shall establish a transport commission comprised of (as a minimum) each of the following members:

(A) the Governor of each State in the Visibility Transport Region, or the Governor's designee;

(B) The Administrator or the Administrator's designee; and

(C) A representative of each Federal agency charged with the direct management of each class I area or areas within the Visibility Transport Region.

(3) All representatives of the Federal Government shall be ex officio members.

(4) The visibility transport commissions shall be exempt from the requirements of the Federal Advisory Committee Act (5 U.S.C. Appendix 2, Section 1).

(d) **DUTIES OF VISIBILITY TRANSPORT COMMISSIONS.**—A Visibility Transport Commission—

(1) shall assess the scientific and technical data, studies, and other currently available information, including studies conducted pursuant to subsection (a)(1), pertaining to adverse impacts on visibility from potential or projected growth in emissions from sources located in the Visibility Transport Region; and

(2) shall, within 4 years of establishment, issue a report to the Administrator recommending what measures, if any, should be taken under the Clean Air Act to remedy such adverse impacts. The report required by this subsection shall address at least the following measures:

(A) the establishment of clean air corridors, in which additional restrictions on increases in emissions may be appropriate to protect visibility in affected class I areas;

(B) the imposition of the requirements of part D of this title affecting the construction of new major stationary sources or major modifications to existing sources in such clean air corridors specifically including the alternative siting analysis provisions of section 173(a)(5); and

(C) the promulgation of regulations under section 169A to address long range strategies for addressing regional haze which impairs visibility in affected class I areas.

(e) **DUTIES OF THE ADMINISTRATOR.**—(1) The Administrator shall, taking into account the studies pursuant to subsection (a)(1) and the reports pursuant to subsection (d)(2) and any other relevant information, within eighteen months of receipt of the report referred to in subsection (d)(2) of this section, carry out the Administrator's regulatory responsibilities under section 169A,

including criteria for measuring “reasonable progress” toward the national goal.

(2) Any regulations promulgated under section 169A of this title pursuant to this subsection shall require affected States to revise within 12 months their implementation plans under section 110 of this title to contain such emission limits, schedules of compliance, and other measures as may be necessary to carry out regulations promulgated pursuant to this subsection.

(f) GRAND CANYON VISIBILITY TRANSPORT COMMISSION.—The Administrator pursuant to subsection (c)(1) shall, within 12 months, establish a visibility transport commission for the region affecting the visibility of the Grand Canyon National Park.

PART D—PLAN REQUIREMENTS FOR NONATTAINMENT AREAS

Subpart 1—Nonattainment Areas in General

[¶ 2171]

Sec. 171. DEFINITIONS

For the purpose of this part—

(1) REASONABLE FURTHER PROGRESS.—The term “reasonable further progress” means such annual incremental reductions in emissions of the relevant air pollutant as are required by this part or may reasonably be required by the Administrator for the purpose of ensuring attainment of the applicable national ambient air quality standard by the applicable date.

(2) NONATTAINMENT AREA.—The term “nonattainment area” means, for any air pollutant, an area which is designated “nonattainment” with respect to that pollutant within the meaning of section 107(d).

(3) The term “lowest achievable emission rate” means for any source, that rate of emissions which reflects—

(A) the most stringent emission limitation which is contained in the implementation plan of any State for such class or category of source, unless the owner or operator of the proposed source demonstrates that such limitations are not achievable, or

(B) the most stringent emission limitation which is achieved in practice by such class or category of source, whichever is more stringent.

In no event shall the application of this term permit a proposed new or modified source to emit any pollutant in excess of the amount allowable under applicable new source standards of performance.

(4) The terms “modifications” and “modified” mean the same as the term “modification” as used in section 111(a)(4) of this Act.

[¶ 2172]

Sec. 172. NONATTAINMENT PLAN PROVISIONS IN GENERAL.

(a) CLASSIFICATIONS AND ATTAINMENT DATES.—

(1) CLASSIFICATIONS.—(A) On or after the date the Administrator promulgates the designation of an area as a nonattainment area pursuant to section 107(d) with respect to any national ambient air quality standard (or any revised standard, including a revision of any standard in effect on the date of the enactment of the Clean Air Act Amendments of 1990), the Administrator may classify the area for the purpose of applying an attainment date pursuant to paragraph (2), and for other purposes. In determining the appropriate classification, if any, for a nonattainment area, the Administrator may consider such factors as the severity of nonattainment in such area and the availability and feasibility of the pollution control measures that the Administrator believes may be necessary to provide for attainment of such standard in such area.

(B) The Administrator shall publish a notice in the Federal Register announcing each classification under subparagraph (A), except the Administrator shall provide an opportunity for at least 30 days for written comment. Such classification shall not be subject to the provisions of sections 553 through 557 of title 5 of the United States Code (concerning notice and comment) and shall not be subject to judicial review until the Administrator takes final action under subsection (k) or (l) of section 110 (concerning action on plan submissions) or section 179 (concerning sanctions) with respect to any plan submissions required by virtue of such classification.

(C) This paragraph shall not apply with respect to nonattainment areas for which classifications are specifically provided under other provisions of this part.

(2) ATTAINMENT DATES FOR NONATTAINMENT AREAS.—(A) The attainment date for an area designated nonattainment with respect to a national primary ambient air quality standard shall be the date by which attainment can be achieved as expeditiously as practicable, but no later than 5 years from the date such area was designated nonattainment under section 107(d), except that the Administrator may extend the attainment date to the extent the Administrator determines appropriate, for a period no greater than 10 years from the date of designation as nonattainment, considering the severity of nonattainment and the availability and feasibility of pollution control measures.

(B) The attainment date for an area designated nonattainment with respect to a secondary national ambient air quality standard shall be the date by which attainment can be achieved as expeditiously as practicable after the date such area was designated nonattainment under section 107(d).

(C) Upon application by any State, the Administrator may extend for 1 additional year (hereinafter referred to as the “Exten-

sion Year”) the attainment date determined by the Administrator under subparagraph (A) or (B) if—

(i) the State has complied with all requirements and commitments pertaining to the area in the applicable implementation plan, and

(ii) in accordance with guidance published by the Administrator, no more than a minimal number of exceedances of the relevant national ambient air quality standard has occurred in the area in the year preceding the Extension Year.

No more than 2 one-year extensions may be issued under this subparagraph for a single nonattainment area.

(D) This paragraph shall not apply with respect to nonattainment areas for which attainment dates are specifically provided under other provisions of this part.

(b) **SCHEDULE FOR PLAN SUBMISSIONS.**—At the time the Administrator promulgates the designation of an area as nonattainment with respect to a national ambient air quality standard under section 107(d), the Administrator shall establish a schedule according to which the State containing such area shall submit a plan or plan revision (including the plan items) meeting the applicable requirements of subsection (c) and section 110(a)(2). Such schedule shall at a minimum, include a date or dates, extending no later than 3 years from the date of the nonattainment designation, for the submission of a plan or plan revision (including the plan items) meeting the applicable requirements of subsection (c) and section 110(a)(2).

(c) **NONATTAINMENT PLAN PROVISIONS.**—The plan provisions (including plan items) required to be submitted under this part shall comply with each of the following:

(1) **IN GENERAL.**—Such plan provisions shall provide for the implementation of all reasonably available control measures as expeditiously as practicable (including such reductions in emissions from existing sources in the area as may be obtained through the adoption, at a minimum, of reasonably available control technology) and shall provide for attainment of the national primary ambient air quality standards.

(2) **RFP.**—Such plan provisions shall require reasonable further progress.

(3) **INVENTORY.**—Such plan provisions shall include a comprehensive, accurate, current inventory of actual emissions from all sources of the relevant pollutant or pollutants in such area, including such periodic revisions as the Administrator may determine necessary to assure that the requirements of this part are met.

(4) **IDENTIFICATION AND QUANTIFICATION.**—Such plan provisions shall expressly identify and quantify the emissions, if any, of any such pollutant or pollutants which will be allowed, in accordance with section 173(a)(1)(B), from the construction and operation of major new or modified stationary sources in each such area. The plan shall demonstrate to

the satisfaction of the Administrator that the emissions quantified for this purpose will be consistent with the achievement of reasonable further progress and will not interfere with attainment of the applicable national ambient air quality standard by the applicable attainment date.

(5) PERMITS FOR NEW AND MODIFIED MAJOR STATIONARY SOURCES.—Such plan provisions shall require permits for the construction and operation of new or modified major stationary sources anywhere in the nonattainment area, in accordance with section 173.

(6) OTHER MEASURES.—Such plan provisions shall include enforceable emission limitations, and such other control measures, means or techniques (including economic incentives such as fees, marketable permits, and auctions of emission rights), as well as schedules and timetables for compliance, as may be necessary or appropriate to provide for attainment of such standard in such area by the applicable attainment date specified in this part.

(7) COMPLIANCE WITH SECTION 110(a)(2).—Such plan provisions shall also meet the applicable provisions of section 110(a)(2).

(8) EQUIVALENT TECHNIQUES.—Upon application by any State, the Administrator may allow the use of equivalent modeling, emission inventory, and planning procedures, unless the Administrator determines that the proposed techniques are, in the aggregate, less effective than the methods specified by the Administrator.

(9) CONTINGENCY MEASURES.—Such plan shall provide for the implementation of specific measures to be undertaken if the area fails to make reasonable further progress, or to attain the national primary ambient air quality standard by the attainment date applicable under this part. Such measures shall be included in the plan revision as contingency measures to take effect in any such case without further action by the State or the Administrator.

(d) PLAN REVISIONS REQUIRED IN RESPONSE TO FINDING OF PLAN INADEQUACY.—Any plan revision for a nonattainment area which is required to be submitted in response to a finding by the Administrator pursuant to section 110(k)(5) (relating to calls for plan revisions) must correct the plan deficiency (or deficiencies) specified by the Administrator and meet all other applicable plan requirements of section 110 and this part. The Administrator may reasonably adjust the dates otherwise applicable under such requirements to such revision (except for attainment dates that have not yet elapsed), to the extent necessary to achieve a consistent application of such requirements. In order to facilitate submittal by the States of adequate and approvable plans consistent with the applicable requirements of this Act, the Administrator shall, as appropriate and from time to time, issue written guidelines, interpretations, and information to the States which shall be available to the public, taking into consideration any such guidelines, interpretations, or information provided before the date of the enactment of the Clean Air Act Amendments of 1990.

(e) **FUTURE MODIFICATION OF STANDARD.**—If the Administrator relaxes a national primary ambient air quality standard after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall, within 12 months after the relaxation, promulgate requirements applicable to all areas which have not attained that standard as of the date of such relaxation. Such requirements shall provide for controls which are not less stringent than the controls applicable to areas designated nonattainment before such relaxation.

[¶ 2173]

Sec. 173. PERMIT REQUIREMENTS

(a) **IN GENERAL.** The permit program required by section 172(b)(6) shall provide that permits to construct and operate may be issued if—

(1) in accordance with regulations issued by the Administrator for the determination of baseline emissions in a manner consistent with the assumptions underlying the applicable implementation plan approved under section 110 and this part, the permitting agency determines that—

(A) by the time the source is to commence operation, sufficient offsetting emissions reductions have been obtained, such that total allowable emissions from existing sources in the region, from new or modified sources which are not major emitting facilities, and from the proposed source will be sufficiently less than total emissions from existing sources (as determined in accordance with the regulations under this paragraph) prior to the application for such permit to construct or modify so as to represent (when considered together with the plan provisions required under section 172) reasonable further progress (as defined in section 171); or

(B) in the case of a new or modified major stationary source which is located in a zone (within the nonattainment area) identified by the Administrator, in consultation with the Secretary of Housing and Urban Development, as a zone to which economic development should be targeted, that emissions of such pollutant resulting from the proposed new or modified major stationary source will not cause or contribute to emissions levels which exceed the allowance permitted for such pollutant for such area from new or modified major stationary sources under section 172(c);

(2) the proposed source is required to comply with the lowest achievable emission rate;

(3) the owner or operator of the proposed new or modified source has demonstrated that all major stationary sources owned or operated by such person (or by any entity controlling, controlled by, or under common control with such person) in such State are subject to emission limitations and are in compliance, or on a schedule for compliance, with all applicable emission limitations and standards under this Act; and

(4) the Administrator has not determined that the applicable implementation plan is not being adequately implemented for the nonattain-

ment area in which the proposed source is to be constructed or modified in accordance with the requirements of this part; and

(5) an analysis of alternative sites, sizes, production processes, and environmental control techniques for such proposed source demonstrates that benefits of the proposed source significantly outweigh the environmental and social costs imposed as a result of its location, construction, or modification.

Any emission reductions required as a precondition of the issuance of a permit under paragraph (1) shall be federally enforceable before such permit may be issued.

(b) PROHIBITION ON USE OF OLD GROWTH ALLOWANCES.—Any growth allowance included in an applicable implementation plan to meet the requirements of section 172(b)(5) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) shall not be valid for use in any area that received or receives a notice under section 110(a)(2)(H)(ii) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) or under section 110(k)(1) that its applicable implementation plan containing such allowance is substantially inadequate.

(c) OFFSETS.—(1) The owner or operator of a new or modified major stationary source may comply with any offset requirement in effect under this part for increased emissions of any air pollutant only by obtaining emission reductions of such air pollutant from the same source or other sources in the same nonattainment area, except that the State may allow the owner or operator of a source to obtain such emission reductions in another nonattainment area if (A) the other area has an equal or higher nonattainment classification than the area in which the source is located and (B) emissions from such other area contribute to a violation of the national ambient air quality standard in the nonattainment area in which the source is located. Such emission reductions shall be, by the time a new or modified source commences operation, in effect and enforceable and shall assure that the total tonnage of increased emissions of the air pollutant from the new or modified source shall be offset by an equal or greater reduction, as applicable, in the actual emissions of such air pollutant from the same or other sources in the area.

(2) Emission reductions otherwise required by this Act shall not be creditable as emissions reductions for purposes of any such offset requirement. Incidental emission reductions which are not otherwise required by this Act shall be creditable as emission reductions for such purposes if such emission reductions meet the requirements of paragraph (1).

(d) CONTROL TECHNOLOGY INFORMATION.—The State shall provide that control technology information from permits issued under this section will be promptly submitted to the Administrator for purposes of making such information available through the RACT/BACT/LAER clearinghouse to other States and to the general public.

(e) **ROCKET ENGINES OR MOTORS.**—The permitting authority of a State shall allow a source to offset by alternative or innovative means emission increases from rocket engine and motor firing, and cleaning related to such firing, at an existing or modified major source that tests rocket engines or motors under the following conditions:

(1) Any modification proposed is solely for the purpose of expanding the testing of rocket engines or motors at an existing source that is permitted to test such engines on the date of enactment of this subsection.

(2) The source demonstrates to the satisfaction of the permitting authority of the State that it has used all reasonable means to obtain and utilize offsets, as determined on an annual basis, for the emissions increases beyond allowable levels, that all available offsets are being used, and that sufficient offsets are not available to the source.

(3) The source has obtained a written finding from the Department of Defense, Department of Transportation, National Aeronautics and Space Administration or other appropriate Federal agency, that the testing of rocket motors or engines at the facility is required for a program essential to the national security.

(4) The source will comply with an alternative measure, imposed by the permitting authority, designed to offset any emission increases beyond permitted levels not directly offset by the source. In lieu of imposing any alternative offset measures, the permitting authority may impose an emissions fee to be paid to such authority of a State which shall be an amount no greater than 1.5 times the average cost of stationary source control measures adopted in that area during the previous 3 years. The permitting authority shall utilize the fees in a manner that maximizes the emissions reductions in that area.

[¶ 2174]

Sec. 174. PLANNING PROCEDURES

(a) **IN GENERAL.**—For any ozone, carbon monoxide, or PM-10 nonattainment area, the State containing such area and elected officials of affected local governments shall, before the date required for submittal of the inventory described under sections 182(a)(1) and 187(a)(1), jointly review and update as necessary the planning procedures adopted pursuant to this subsection as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990, or develop new planning procedures pursuant to this subsection, as appropriate. In preparing such procedures the State and local elected officials shall determine which elements of a revised implementation plan will be developed, adopted, and implemented (through means including enforcement) by the State and which by local governments or regional agencies, or any combination of local governments, regional agencies, or the State. The implementation plan required by this part shall be prepared by an organization certified by the State, in consultation with elected officials of local governments and in accordance with the determination under the second sentence of this subsection. Such organization shall include elected officials of

local governments in the affected area, and representatives of the State air quality planning agency, the State transportation planning agency, the metropolitan planning organization designated to conduct the continuing, cooperative and comprehensive transportation planning process for the area under section 134 of title 23, United States Code, the organization responsible for the air quality maintenance planning process under regulations implementing this Act, and any other organization with responsibilities for developing, submitting, or implementing the plan required by this part. Such organization may be one that carried out these functions before the date of the enactment of the Clean Air Act Amendments of 1990.

(b) **COORDINATION.**—The preparation of implementation plan provisions and subsequent plan revisions under the continuing transportation-air quality planning process described in section 108(e) shall be coordinated with the continuing, cooperative and comprehensive transportation planning process required under section 134 of title 23, United States Code, and such planning processes shall take into account the requirements of this part.

(c) **JOINT PLANNING.**—In the case of a nonattainment area that is included within more than one State, the affected States may jointly, through interstate compact or otherwise, undertake and implement all or part of the planning procedures described in this section..

[¶ 2175]

Sec. 175. ENVIRONMENTAL PROTECTION AGENCY GRANTS

(a) The Administrator shall make grants to any organization of local elected officials with transportation or air quality maintenance planning responsibilities recognized by the State under section 174(a) for payment of the reasonable costs of developing a plan revision under this part.

(b) The amount granted to any organization under subsection (a) shall be 100 percent of any additional costs of developing a plan revision under this part for the first two fiscal years following receipt of the grant under this paragraph, and shall supplement any funds available under Federal law to such organization for transportation or air quality maintenance planning. Grants under this section shall not be used for construction.

[¶ 2175A]

Sec. 175A. MAINTENANCE PLANS.

(a) **PLAN REVISION.**—Each State which submits a request under section 107(d) for redesignation of a nonattainment area for any air pollutant as an area which has attained the national primary ambient air quality standard for that air pollutant shall also submit a revision of the applicable State implementation plan to provide for the maintenance of the national primary ambient air quality standard for such air pollutant in the area concerned for at least 10 years after the redesignation. The plan shall contain such additional measures, if any, as may be necessary to ensure such maintenance.

(b) **SUBSEQUENT PLAN REVISIONS.**—8 years after redesignation of any area as an attainment area under section 107(d), the State shall submit to the

Administrator an additional revision of the applicable State implementation plan for maintaining the national primary ambient air quality standard for 10 years after the expiration of the 10-year period referred to in subsection (a).

(c) **NONATTAINMENT REQUIREMENTS APPLICABLE PENDING PLAN APPROVAL.**—Until such plan revision is approved and an area is redesignated as attainment for any area designated as a nonattainment area, the requirements of this part shall continue in force and effect with respect to such area.

(d) **CONTINGENCY PROVISIONS.**—Each plan revision submitted under this section shall contain such contingency provisions as the Administrator deems necessary to assure that the State will promptly correct any violation of the standard which occurs after the redesignation of the area as an attainment area. Such provisions shall include a requirement that the State will implement all measures with respect to the control of the air pollutant concerned which were contained in the State implementation plan for the area before redesignation of the area as an attainment area. The failure of any area redesignated as an attainment area to maintain the national ambient air quality standard concerned shall not result in a requirement that the State revise its State implementation plan unless the Administrator, in the Administrator's discretion, requires the State to submit a revised State implementation plan.

[¶ 2176]

Sec. 176. LIMITATIONS ON CERTAIN FEDERAL ASSISTANCE

[CCH Note: (a) and (b) deleted by P.L. 101-549.]

(c)(1) No department, agency, or instrumentality of the Federal Government shall engage in, support in any way or provide financial assistance for, license or permit, or approve, any activity which does not conform to an implementation plan after it has been approved or promulgated under section 110. No metropolitan planning organization designated under section 134 of title 23, United States Code, shall give its approval to any project, program, or plan which does not conform to an implementation plan approved or promulgated under section 110. The assurance of conformity to such an implementation plan shall be an affirmative responsibility of the head of such department, agency, or instrumentality. Conformity to an implementation plan means—

(A) conformity to an implementation plan's purpose of eliminating or reducing the severity and number of violations of the national ambient air quality standards and achieving expeditious attainment of such standards; and

(B) that such activities will not—

(i) cause or contribute to any new violation of any standard in any area;

(ii) increase the frequency or severity of any existing violation of any standard in any area; or

(iii) delay timely attainment of any standard or any required interim emission reductions or other milestones in any area.

The determination of conformity shall be based on the most recent estimates of emissions, and such estimates shall be determined from the most recent population, employment, travel and congestion estimates as determined by the metropolitan planning organization or other agency authorized to make such estimates.

(2) Any transportation plan or program developed pursuant to title 23, United States Code, or the Urban Mass Transportation Act shall implement the transportation provisions of any applicable implementation plan approved under this Act applicable to all or part of the area covered by such transportation plan or program. No Federal agency may approve, accept or fund any transportation plan, program or project unless such plan, program or project has been found to conform to any applicable implementation plan in effect under this Act. In particular—

(A) no transportation plan or transportation improvement program may be adopted by a metropolitan planning organization designated under title 23, United States Code, or the Urban Mass Transportation Act, or be found to be in conformity by a metropolitan planning organization until a final determination has been made that emissions expected from implementation of such plans and programs are consistent with estimates of emissions from motor vehicles and necessary emissions reductions contained in the applicable implementation plan, and that the plan or program will conform to the requirements of paragraph (1)(B);

(B) no metropolitan planning organization or other recipient of funds under title 23, United States Code, or the Urban Mass Transportation Act shall adopt or approve a transportation improvement program of projects until it determines that such program provides for timely implementation of transportation control measures consistent with schedules included in the applicable implementation plan;

(C) a transportation project may be adopted or approved by a metropolitan planning organization or any recipient of funds designated under title 23, United States Code, or the Urban Mass Transportation Act, or found in conformity by a metropolitan planning organization or approved, accepted, or funded by the Department of Transportation only if it meets either the requirements of subparagraph (D) or the following requirements—

(i) such a project comes from a conforming plan and program;

(ii) the design concept and scope of such project have not changed significantly since the conformity finding regarding the plan and program from which the project derived; and

(iii) the design concept and scope of such project at the time of the conformity determination for the program was adequate to determine emissions.

(D) Any project not referred to in subparagraph (C) shall be treated as conforming to the applicable implementation plan only if it is demonstrated that the projected emissions from such project, when considered together with emissions projected for the conforming transportation plans and programs within the nonattainment area, do not cause such plans and programs to exceed the emission reduction projections and schedules assigned to such plans and programs in the applicable implementation plan.

(3) Until such time as the implementation plan revision referred to in paragraph (4)(C) is approved, conformity of such plans, programs, and projects will be demonstrated if—

(A) the transportation plans and programs—

(i) are consistent with the most recent estimates of mobile source emissions;

(ii) provide for the expeditious implementation of transportation control measures in the applicable implementation plan; and

(iii) with respect to ozone and carbon monoxide nonattainment areas, contribute to annual emissions reductions consistent with sections 182(b)(1) and 187(a)(7); and

(B) the transportation projects—

(i) come from a conforming transportation plan and program as defined in subparagraph (A) or for 12 months after the date of the enactment of the Clean Air Act Amendments of 1990, from a transportation program found to conform within 3 years prior to such date of enactment; and

(ii) in carbon monoxide nonattainment areas, eliminate or reduce the severity and number of violations of the carbon monoxide standards in the area substantially affected by the project.

With regard to subparagraph (B)(ii), such determination may be made as part of either the conformity determination for the transportation program or for the individual project taken as a whole during the environmental review phase of project development.

(4)(A) No later than one year after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate criteria and procedures for determining conformity (except in the case of transportation plans, programs, and projects) of, and for keeping the Administrator informed about, the activities referred to in paragraph (1). No later than one year after such date of enactment, the Administrator, with the concurrence of the Secretary of Transportation, shall promulgate

criteria and procedures for demonstrating and assuring conformity in the case of transportation plans, programs, and projects. A suit may be brought against the Administrator and the Secretary of Transportation under section 304 to compel promulgation of such criteria and procedures and the Federal district court shall have jurisdiction to order such promulgation.

(B) The procedures and criteria shall, at a minimum—

(i) address the consultation procedures to be undertaken by metropolitan planning organizations and the Secretary of Transportation with State and local air quality agencies and State departments of transportation before such organizations and the Secretary make conformity determinations;

(ii) address the appropriate frequency for making conformity determinations, but in no case shall such determinations for transportation plans and programs be less frequent than every three years; and

(iii) address how conformity determinations will be made with respect to maintenance plans.

(C) Such procedures shall also include a requirement that each State shall submit to the Administrator and the Secretary of Transportation within 24 months of such date of enactment, a revision to its implementation plan that includes criteria and procedures for assessing the conformity of any plan, program, or project subject to the conformity requirements of this subsection.

(d) Each department, agency, or instrumentality of the Federal Government having authority to conduct or support any program with air-quality related transportation consequences shall give priority in the exercise of such authority, consistent with statutory requirements for allocation among States or other jurisdictions, to the implementation of those portions of plans prepared under this section to achieve and maintain the national primary ambient air quality standard. This paragraph extends to, but is not limited to, authority exercised under the Urban Mass Transportation Act, title 23 of the United States Code, and the Housing and Urban Development Act.

[¶ 2176A]

Sec. 176A. INTERSTATE TRANSPORT COMMISSIONS.

(a) **AUTHORITY TO ESTABLISH INTERSTATE TRANSPORT REGIONS.**—Whenever, on the Administrator's own motion or by petition from the Governor of any State, the Administrator has reason to believe that the interstate transport of air pollutants from one or more States contributes significantly to a violation of a national ambient air quality standard in one or more other States, the Administrator may establish, by rule, a transport region for such pollutant that includes such States. The Administrator, on the Administrator's own motion or upon petition from the Governor of any State, or upon the recommendation of a transport commission established under subsection (b), may—

¶ 2176A Sec. 176A

(1) add any State or portion of a State to any region established under this subsection whenever the Administrator has reason to believe that the interstate transport of air pollutants from such State significantly contributes to a violation of the standard in the transport region, or

(2) remove any State or portion of a State from the region whenever the Administrator has reason to believe that the control of emissions in that State or portion of the State pursuant to this section will not significantly contribute to the attainment of the standard in any area in the region.

The Administrator shall approve or disapprove any such petition or recommendation within 18 months of its receipt. The Administrator shall establish appropriate proceedings for public participation regarding such petitions and motions, including notice and comment.

(b) TRANSPORT COMMISSIONS.—

(1) ESTABLISHMENT.—Whenever the Administrator establishes a transport region under subsection (a), the Administrator shall establish a transport commission comprised of (at a minimum) each of the following members:

(A) The Governor of each State in the region or the designee of each such Governor.

(B) The Administrator or the Administrator's designee.

(C) The Regional Administrator (or the Administrator's designee) for each Regional Office for each Environmental Protection Agency Region affected by the transport region concerned.

(D) An air pollution control official representing each State in the region, appointed by the Governor.

Decisions of, and recommendations and requests to, the Administrator by each transport commission may be made only by a majority vote of all members other than the Administrator and the Regional Administrators (or designees thereof).

(2) RECOMMENDATIONS.—The transport commission shall assess the degree of interstate transport of the pollutant or precursors to the pollutant throughout the transport region, assess strategies for mitigating the interstate pollution, and recommend to the Administrator such measures as the Commission determines to be necessary to ensure that the plans for the relevant States meet the requirements of section 110(a)(2)(D). Such commission shall not be subject to the provisions of the Federal Advisory Committee Act (5 U.S.C. App.).

(c) COMMISSION REQUESTS.—A transport commission established under subsection (b) may request the Administrator to issue a finding under section 110(k)(5) that the implementation plan for one or more of the States in the transport region is substantially inadequate to meet the requirements of section 110(a)(2)(D). The Administrator shall approve, disapprove, or par-

tially approve and partially disapprove such a request within 18 months of its receipt and, to the extent the Administrator approves such request, issue the finding under section 110(k)(5) at the time of such approval. In acting on such request, the Administrator shall provide an opportunity for public participation and shall address each specific recommendation made by the commission. Approval or disapproval of such a request shall constitute final agency action within the meaning of section 307(b).

[¶ 2177]

Sec. 177. NEW MOTOR VEHICLE EMISSION STANDARDS IN NONATTAINMENT AREAS

Notwithstanding section 209(a), any State which has plan provisions approved under this part may adopt and enforce for any model year standards relating to control of emissions from new motor vehicles or new motor vehicle engines and take such other actions as are referred to in section 209(a) respecting such vehicles if—

(1) such standards are identical to the California standards for which a waiver has been granted for such model year, and

(2) California and such State adopt such standards at least two years before commencement of such model year (as determined by regulations of the Administrator).

Nothing in this section or in title II of this Act shall be construed as authorizing any such State to prohibit or limit, directly or indirectly, the manufacture or sale of a new motor vehicle or motor vehicle engine that is certified in California as meeting California standards, or to take any action of any kind to create, or have the effect of creating, a motor vehicle or motor vehicle engine different than a motor vehicle or engine certified in California under California standards (a “third vehicle”) or otherwise create such a “third vehicle.”

[2178]

Sec. 178. GUIDANCE DOCUMENTS

The Administrator shall issue guidance documents under section 108 for purposes of assisting States in implementing requirements of this part respecting the lowest achievable emission rate. Such a document shall be published not later than nine months after the date of enactment of this part and shall be revised at least every two years thereafter.

[¶ 2179]

Sec. 179. SANCTIONS AND CONSEQUENCES OF FAILURE TO ATTAIN.

(a) STATE FAILURE.—For any implementation plan or plan revision required under this part (or required in response to a finding of substantial inadequacy as described in section 110(k)(5)), if the Administrator—

(1) finds that a State has failed, for an area designated nonattainment under section 107(d), to submit a plan, or to submit 1 or more of the elements (as determined by the Administrator) required by the provisions

of this Act applicable to such an area, or has failed to make a submission for such an area that satisfies the minimum criteria established in relation to any such element under section 110(k),

(2) disapproves a submission under section 110(k), for an area designated nonattainment under section 107, based on the submission's failure to meet one or more of the elements required by the provisions of this Act applicable to such an area,

(3)(A) determines that a State has failed to make any submission as may be required under this Act, other than one described under paragraph (1) or (2), including an adequate maintenance plan, or has failed to make any submission, as may be required under this Act, other than one described under paragraph (1) or (2), that satisfies the minimum criteria established in relation to such submission under section 110(k)(1)(A), or

(B) disapproves in whole or in part a submission described under subparagraph (A), or

(4) finds that any requirement of an approved plan (or approved part of a plan) is not being implemented,

unless such deficiency has been corrected within 18 months after the finding, disapproval, or determination referred to in paragraphs (1), (2), (3), and (4), one of the sanctions referred to in subsection (b) shall apply, as selected by the Administrator, until the Administrator determines that the State has come into compliance, except that if the Administrator finds a lack of good faith, sanctions under both paragraph (1) and paragraph (2) of subsection (b) shall apply until the Administrator determines that the State has come into compliance. If the Administrator has selected one of such sanctions and the deficiency has not been corrected within 6 months thereafter, sanctions under both paragraph (1) and paragraph (2) of subsection (b) shall apply until the Administrator determines that the State has come into compliance. In addition to any other sanction applicable as provided in this section, the Administrator may withhold all or part of the grants for support of air pollution planning and control programs that the Administrator may award under section 105.

(b) SANCTIONS.—The sanctions available to the Administrator as provided in subsection (a) are as follows:

(1) HIGHWAY SANCTIONS.—(A) The Administrator may impose a prohibition, applicable to a nonattainment area, on the approval by the Secretary of Transportation of any projects or the awarding by the Secretary of any grants, under title 23, United States Code, other than projects or grants for safety where the Secretary determines, based on accident or other appropriate data submitted by the State, that the principal purpose of the project is an improvement in safety to resolve a demonstrated safety problem and likely will result in a significant reduction in, or avoidance of, accidents. Such prohibition shall become effective upon the selection by the Administrator of this sanction.

(B) In addition to safety, projects or grants that may be approved by the Secretary, notwithstanding the prohibition in subparagraph (A), are the following—

- (i) capital programs for public transit;
- (ii) construction or restriction of certain roads or lanes solely for the use of passenger buses or high occupancy vehicles;
- (iii) planning for requirements for employers to reduce employee work-trip-related vehicle emissions;
- (iv) highway ramp metering, traffic signalization, and related programs that improve traffic flow and achieve a net emission reduction;
- (v) fringe and transportation corridor parking facilities serving multiple occupancy vehicle programs or transit operations;
- (vi) programs to limit or restrict vehicle use in downtown areas or other areas of emission concentration particularly during periods of peak use, through road use charges, tolls, parking surcharges, or other pricing mechanisms, vehicle restricted zones or periods, or vehicle registration programs;
- (vii) programs for breakdown and accident scene management, nonrecurring congestion, and vehicle information systems, to reduce congestion and emissions; and
- (viii) such other transportation-related programs as the Administrator, in consultation with the Secretary of Transportation, finds would improve air quality and would not encourage single occupancy vehicle capacity.

In considering such measures, the State should seek to ensure adequate access to downtown, other commercial, and residential areas, and avoid increasing or relocating emissions and congestion rather than reducing them.

(2) OFFSETS.—In applying the emissions offset requirements of section 173 to new or modified sources or emissions units for which a permit is required under part D, the ratio of emission reductions to increased emissions shall be at least 2 to 1.

(c) NOTICE OF FAILURE TO ATTAIN.—(1) As expeditiously as practicable after the applicable attainment date for any nonattainment area, but not later than 6 months after such date, the Administrator shall determine, based on the area's air quality as of the attainment date, whether the area attained the standard by that date.

(2) Upon making the determination under paragraph (1), the Administrator shall publish a notice in the Federal Register containing such determination and identifying each area that the Administrator has

determined to have failed to attain. The Administrator may revise or supplement such determination at any time based on more complete information or analysis concerning the area's air quality as of the attainment date.

(d) CONSEQUENCES FOR FAILURE TO ATTAIN.—(1) Within 1 year after the Administrator publishes the notice under subsection (c)(2) (relating to notice of failure to attain), each State containing a nonattainment area shall submit a revision to the applicable implementation plan meeting the requirements of paragraph (2) of this subsection.

(2) The revision required under paragraph (1) shall meet the requirements of section 110 and section 172. In addition, the revision shall include such additional measures as the Administrator may reasonably prescribe, including all measures that can be feasibly implemented in the area in light of technological achievability, costs, and any nonair quality and other air quality-related health and environmental impacts.

(3) The attainment date applicable to the revision required under paragraph (1) shall be the same as provided in the provisions of section 172(a)(2), except that in applying such provisions the phrase “from the date of the notice under section 179(c)(2)” shall be substituted for the phrase “from the date such area was designated nonattainment under section 107(d)” and for the phrase “from the date of designation as nonattainment”.

[¶ 2179B]

Sec. 179B. INTERNATIONAL BORDER AREAS.

(a) IMPLEMENTATION PLANS AND REVISIONS.—Notwithstanding any other provision of law, an implementation plan or plan revision required under this Act shall be approved by the Administrator if—

(1) such plan or revision meets all the requirements applicable to it under the Act other than a requirement that such plan or revision demonstrate attainment and maintenance of the relevant national ambient air quality standards by the attainment date specified under the applicable provision of this Act, or in a regulation promulgated under such provision, and

(2) the submitting State establishes to the satisfaction of the Administrator that the implementation plan of such State would be adequate to attain and maintain the relevant national ambient air quality standards by the attainment date specified under the applicable provision of this Act, or in a regulation promulgated under such provision, but for emissions emanating from outside of the United States.

(b) ATTAINMENT OF OZONE LEVELS.—Notwithstanding any other provision of law, any State that establishes to the satisfaction of the Administrator that, with respect to an ozone nonattainment area in such State, such State would have attained the national ambient air quality standard for ozone by the applicable attainment date, but for emissions emanating from outside of

the United States, shall not be subject to the provisions of section 181(a)(2) or (5) or section 185.

(c) **ATTAINMENT OF CARBON MONOXIDE LEVELS.**—Notwithstanding any other provision of law, any State that establishes to the satisfaction of the Administrator, with respect to a carbon monoxide nonattainment area in such State, that such State has attained the national ambient air quality standard for carbon monoxide by the applicable attainment date, but for emissions emanating from outside of the United States, shall not be subject to the provisions of section 186(b)(2) or (9).

(d) **ATTAINMENT OF PM-10 LEVELS.**—Notwithstanding any other provision of law, any State that establishes to the satisfaction of the Administrator that, with respect to a PM-10 nonattainment area in such State, such State would have attained the national ambient air quality standard for carbon monoxide by the applicable attainment date, but for emissions emanating from outside the United States shall not be subject to the provisions of section 188(b)(2).

Subpart 2—Additional Provisions for Ozone Nonattainment Areas

[¶ 2181]

Sec. 181. CLASSIFICATIONS AND ATTAINMENT DATES

(a) **CLASSIFICATION AND ATTAINMENT DATES FOR 1989 NONATTAINMENT AREAS.**—(1) Each area designated nonattainment for ozone pursuant to section 107(d) shall be classified at the time of such designation, under table 1, by operation of law, as a Marginal Area, a Moderate Area, a Serious Area, a Severe Area, or an Extreme Area based on the design value for the area. The design value shall be calculated according to the interpretation methodology issued by the Administrator most recently before the date of the enactment of the Clean Air Act Amendments of 1990. For each area classified under this subsection, the primary standard attainment date for ozone shall be as expeditiously as practicable but not later than the date provided in table 1.

TABLE 1

<i>Area class</i>	<i>Design value ¹</i>	<i>Primary standard attainment date ²</i>
Marginal	0.121 up to 0.138	3 years after enactment.
Moderate	0.138 up to 0.160	6 years after enactment.
Serious	0.160 up to 0.180	9 years after enactment.
Severe	0.180 up to 0.280	15 years after enactment.
Extreme	0.280 and above	20 years after enactment.

¹ The design value is measured in parts per million (ppm).

² The primary standard attainment date is measured from the date of the enactment of the Clean Air Amendments of 1990.

(2) Notwithstanding table 1, in the case of a severe area with a 1988 ozone design value between 0.190 and 0.280 ppm, the attainment date shall be 17 years (in lieu of 15 years) after the date of the enactment of the Clean Air Amendments of 1990.

(3) At the time of publication of the notice under section 107(d)(4) (relating to area designations) for each ozone nonattainment area, the Administrator shall publish a notice announcing the classification of such ozone nonattainment area. The provisions of section 172(a)(1)(B) (relating to lack of notice and comment and judicial review) shall apply to such classification.

(4) If an area classified under paragraph (1) (Table 1) would have been classified in another category if the design value in the area were 5 percent greater or 5 percent less than the level on which such classification was based, the Administrator may, in the Administrator's discretion, within 90 days after the initial classification, by the procedure required under paragraph (3), adjust the classification to place the area in such other category. In making such adjustment, the Administrator may consider the number of exceedances of the national primary ambient air quality standard for ozone in the area, the level of pollution transport between the area and other affected areas, including both intrastate and interstate transport, and the mix of sources and air pollutants in the area.

(5) Upon application by any State, the Administrator may extend for 1 additional year (hereinafter referred to as the "Extension Year") the date specified in table 1 of paragraph (1) of this subsection if—

(A) the State has complied with all requirements and commitments pertaining to the area in the applicable implementation plan, and

(B) no more than 1 exceedance of the national ambient air quality standard level for ozone has occurred in the area in the year preceding the Extension Year.

No more than 2 one-year extensions may be issued under this paragraph for a single nonattainment area.

(b) NEW DESIGNATIONS AND RECLASSIFICATIONS.—

(1) **NEW DESIGNATIONS TO NONATTAINMENT.**—Any area that is designated attainment or unclassifiable for ozone under section 107(d)(4), and that is subsequently redesignated to nonattainment for ozone under section 107(d)(3), shall, at the time of the redesignation, be classified by operation of law in accordance with table 1 under subsection (a). Upon its classification, the area shall be subject to the same requirements under section 110, subpart 1 of this part, and this subpart that would have applied had the area been so classified at the time of the notice under subsection (a)(3), except that any absolute, fixed date applicable in connection with any such requirement is extended by operation of law by a period equal to the length of time between the date of the enactment of

the Clean Air Act Amendments of 1990 and the date the area is classified under this paragraph.

(2) RECLASSIFICATION UPON FAILURE TO ATTAIN.—(A) Within 6 months following the applicable attainment date (including any extension thereof) for an ozone nonattainment area, the Administrator shall determine, based on the area's design value (as of the attainment date), whether the area attained the standard by that date. Except for any Severe or Extreme area, any area that the Administrator finds has not attained the standard by that date shall be reclassified by operation of law in accordance with table 1 of subsection (a) to the higher of—

(i) the next higher classification for the area, or

(ii) the classification applicable to the area's design value as determined at the time of the notice required under subparagraph (B).

No area shall be reclassified as Extreme under clause (ii).

(B) The Administrator shall publish a notice in the Federal Register, no later than 6 months following the attainment date, identifying each area that the Administrator has determined under subparagraph (A) as having failed to attain and identifying the reclassification, if any, described under subparagraph (A).

(3) VOLUNTARY RECLASSIFICATION.—The Administrator shall grant the request of any State to reclassify a nonattainment area in that State in accordance with table 1 of subsection (a) to a higher classification. The Administrator shall publish a notice in the Federal Register of any such request and of action by the Administrator granting the request.

(4) FAILURE OF SEVERE AREAS TO ATTAIN STANDARD.—(A) If any Severe Area fails to achieve the national primary ambient air quality standard for ozone by the applicable attainment date (including any extension thereof), the fee provisions under section 185 shall apply within the area, the percent reduction requirements of section 182(c)(2)(B) and (C) (relating to reasonable further progress demonstration and NO_x control) shall continue to apply to the area, and the State shall demonstrate that such percent reduction has been achieved in each 3-year interval after such failure until the standard is attained. Any failure to make such a demonstration shall be subject to the sanctions provided under this part.

(B) In addition to the requirements of subparagraph (A), if the ozone design value for a Severe Area referred to in subparagraph (A) is above 0.140 ppm for the year of the applicable attainment date, or if the area has failed to achieve its most recent milestone under section 182(g), the new source review requirements applicable under this subpart in Extreme Areas shall apply in the area and the term "major source" and "major stationary source" shall have the same meaning as in Extreme Areas.

(C) In addition to the requirements of subparagraph (A) for those areas referred to in subparagraph (A) and not covered by subparagraph (B), the provisions referred to in subparagraph (B) shall apply after 3 years from the applicable attainment date unless the area has attained the standard by the end of such 3-year period.

(D) If, after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator modifies the method of determining compliance with the national primary ambient air quality standard, a design value or other indicator comparable to 0.140 in terms of its relationship to the standard shall be used in lieu of 0.140 for purposes of applying the provisions of subparagraphs (B) and (C).

(c) REFERENCES TO TERMS.—(1) Any reference in this subpart to a “Marginal Area”, a “Moderate Area”, a “Serious Area”, a “Severe Area”, or an “Extreme Area” shall be considered a reference to a Marginal Area, a Moderate Area, a Serious Area, a Severe Area, or an Extreme Area as respectively classified under this section.

(2) Any reference in this subpart to “next higher classification” or comparable terms shall be considered a reference to the classification related to the next higher set of design values in table 1.

[¶ 2182]

Sec. 182. PLAN SUBMISSIONS AND REQUIREMENTS.

(a) MARGINAL AREAS.—Each State in which all or part of a Marginal Area is located shall, with respect to the Marginal Area (or portion thereof, to the extent specified in this subsection), submit to the Administrator the State implementation plan revisions (including the plan items) described under this subsection except to the extent the State has made such submissions as of the date of the enactment of the Clean Air Act Amendments of 1990.

(1) INVENTORY.—Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a comprehensive, accurate, current inventory of actual emissions from all sources, as described in section 172(c)(3), in accordance with guidance provided by the Administrator.

(2) CORRECTIONS TO THE STATE IMPLEMENTATION PLAN.—Within the periods prescribed in this paragraph, the State shall submit a revision to the State implementation plan that meets the following requirements—

(A) REASONABLY AVAILABLE CONTROL TECHNOLOGY CORRECTIONS.—For any Marginal Area (or, within the Administrator’s discretion, portion thereof) the State shall submit, within 6 months of the date of classification under section 181(a), a revision that includes such provisions to correct requirements in (or add requirements to) the plan concerning reasonably available control technology as were required under section 172(b) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990), as interpreted in guidance issued by the Administrator

under section 108 before the date of the enactment of the Clean Air Act Amendments of 1990.

(B) SAVINGS CLAUSE FOR VEHICLE INSPECTION AND MAINTENANCE.—(i) For any Marginal Area (or, within the Administrator's discretion, portion thereof), the plan for which already includes, or was required by section 172(b)(11)(B) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) to have included, a specific schedule for implementation of a vehicle emission control inspection and maintenance program, the State shall submit, immediately after the date of the enactment of the Clean Air Act Amendments of 1990, a revision that includes any provisions necessary to provide for a vehicle inspection and maintenance program of no less stringency than that of either the program defined in House Report Numbered 95-294, 95th Congress, 1st Session, 281-291 (1977) as interpreted in guidance of the Administrator issued pursuant to section 172(b)(11)(B) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) or the program already included in the plan, whichever is more stringent.

(ii) Within 12 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall review, revise, update, and republish in the Federal Register the guidance for the States for motor vehicle inspection and maintenance programs required by this Act, taking into consideration the Administrator's investigations and audits of such program. The guidance shall, at a minimum, cover the frequency of inspections, the types of vehicles to be inspected (which shall include leased vehicles that are registered in the nonattainment area), vehicle maintenance by owners and operators, audits by the State, the test method and measures, including whether centralized or decentralized, inspection methods and procedures, quality of inspection, components covered, assurance that a vehicle subject to a recall notice from a manufacturer has complied with that notice, and effective implementation and enforcement, including ensuring that any retesting of a vehicle after a failure shall include proof of corrective action and providing for denial of vehicle registration in the case of tampering or misfueling. The guidance which shall be incorporated in the applicable State implementation plans by the States shall provide the States with continued reasonable flexibility to fashion effective, reasonable, and fair programs for the affected consumer. No later than 2 years after the Administrator promulgates regulations under section 202(m)(3) (relating to emission control diagnostics), the State shall submit a revision to such program to meet any requirements that the Administrator may prescribe under that section.

(C) PERMIT PROGRAMS.—Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision that includes each of the following:

(i) Provisions to require permits, in accordance with sections 172(c)(5) and 173, for the construction and operation of each new or modified major stationary source (with respect to ozone) to be located in the area.

(ii) Provisions to correct requirements in (or add requirements to) the plan concerning permit programs as were required under section 172(b)(6) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990), as interpreted in regulations of the Administrator promulgated as of the date of the enactment of the Clean Air Act Amendments of 1990.

(3) PERIODIC INVENTORY.—

(A) GENERAL REQUIREMENT.—No later than the end of each 3-year period after submission of the inventory under paragraph (1) until the area is redesignated to attainment, the State shall submit a revised inventory meeting the requirements of subsection (a)(1).

(B) EMISSIONS STATEMENTS.—(i) Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision to the State implementation plan to require that the owner or operator of each stationary source of oxides of nitrogen or volatile organic compounds provide the State with a statement, in such form as the Administrator may prescribe (or accept an equivalent alternative developed by the State), for classes or categories of sources, showing the actual emissions of oxides of nitrogen and volatile organic compounds from that source. The first such statement shall be submitted within 3 years after the date of the enactment of the Clean Air Act Amendments of 1990. Subsequent statements shall be submitted at least every year thereafter. The statement shall contain a certification that the information contained in the statement is accurate to the best knowledge of the individual certifying the statement.

(ii) The State may waive the application of clause (i) to any class or category of stationary sources which emit less than 25 tons per year of volatile organic compounds or oxides of nitrogen if the State, in its submissions under subparagraphs (1) or (3)(A), provides an inventory of emissions from such class or category of sources, based on the use of the emission factors established by the Administrator or other methods acceptable to the Administrator.

(4) GENERAL OFFSET REQUIREMENT.—For purposes of satisfying the emission offset requirements of this part, the ratio of total emission reductions of volatile organic compounds to total increased emissions of such air pollutant shall be at least 1.1 to 1.

The Administrator may, in the Administrator's discretion, require States to submit a schedule for submitting any of the revisions or other items required under this subsection. The requirements of this subsection shall apply in lieu of any requirement that the State submit a demonstration that the applicable implementation plan provides for attainment of the ozone standard by the applicable attainment date in any Marginal Area. Section 172(c)(9) (relating to contingency measures) shall not apply to Marginal Areas.

(b) MODERATE AREAS.—Each State in which all or part of a Moderate Area is located shall, with respect to the Moderate Area, make the submissions described under subsection (a) (relating to Marginal Areas), and shall also submit the revisions to the applicable implementation plan described under this subsection.

(1) PLAN PROVISIONS FOR REASONABLE FURTHER PROGRESS.—

(A) GENERAL RULE.—(i) By no later than 3 years after the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision to the applicable implementation plan to provide for volatile organic compound emission reductions, within 6 years after the date of the enactment of the Clean Air Act Amendments of 1990, of at least 15 percent from baseline emissions, accounting for any growth in emissions after the year in which the Clean Air Act Amendments of 1990 are enacted. Such plan shall provide for such specific annual reductions in emissions of volatile organic compounds and oxides of nitrogen as necessary to attain the national primary ambient air quality standard for ozone by the attainment date applicable under this Act. This subparagraph shall not apply in the case of oxides of nitrogen for those areas for which the Administrator determines (when the Administrator approves the plan or plan revision) that additional reductions of oxides of nitrogen would not contribute to attainment.

(ii) A percentage less than 15 percent may be used for purposes of clause (i) in the case of any State which demonstrates to the satisfaction of the Administrator that—

(I) new source review provisions are applicable in the nonattainment areas in the same manner and to the same extent as required under subsection (e) in the case of Extreme Areas (with the exception that, in applying such provisions, the terms “major source” and “major stationary source” shall include (in addition to the sources described in section 302) any stationary source or group of sources located within a contiguous area and under common control that emits, or has the potential to emit, at least 5 tons per year of volatile organic compounds);

(II) reasonably available control technology is required for all existing major sources (as defined in subclause (I)); and

(III) the plan reflecting a lesser percentage than 15 percent includes all measures that can feasibly be implemented in the area, in light of technological achievability.

To qualify for a lesser percentage under this clause, a State must demonstrate to the satisfaction of the Administrator that the plan for the area includes the measures that are achieved in practice by sources in the same source category in nonattainment areas of the next higher category.

(B) BASELINE EMISSIONS.—For purposes of subparagraph (A), the term “baseline emissions” means the total amount of actual VOC or NO_x emissions from all anthropogenic sources in the area during the calendar year of the enactment of the Clean Air Act Amendments of 1990, excluding emissions that would be eliminated under the regulations described in clauses (i) and (ii) of subparagraph (D).

(C) GENERAL RULE FOR CREDITABILITY OF REDUCTIONS.—Except as provided under subparagraph (D), emissions reductions are creditable toward the 15 percent required under subparagraph (A) to the extent they have actually occurred, as of 6 years after the date of the enactment of the Clean Air Act Amendments of 1990, from the implementation of measures required under the applicable implementation plan, rules promulgated by the Administrator, or a permit under title V.

(D) LIMITS ON CREDITABILITY OF REDUCTIONS.—Emission reductions from the following measures are not creditable toward the 15 percent reductions required under subparagraph (A):

(i) Any measure relating to motor vehicle exhaust or evaporative emissions promulgated by the Administrator by January 1, 1990.

(ii) Regulations concerning Reid Vapor Pressure promulgated by the Administrator by the date of the enactment of the Clean Air Act Amendments of 1990 or required to be promulgated under section 211(h).

(iii) Measures required under subsection (a)(2)(A) (concerning corrections to implementation plans prescribed under guidance by the Administrator).

(iv) Measures required under subsection (a)(2)(B) to be submitted immediately after the date of the enactment of the Clean Air Act Amendments of 1990 (concerning corrections to motor vehicle inspection and maintenance programs).

(2) REASONABLY AVAILABLE CONTROL TECHNOLOGY.—The State shall submit a revision to the applicable implementation plan to include provisions to require the implementation of reasonably available control technology under section 172(c)(1) with respect to each of the following:

(A) Each category of VOC sources in the area covered by a CTG document issued by the Administrator between the date of the

enactment of the Clean Air Act Amendments of 1990 and the date of attainment.

(B) All VOC sources in the area covered by any CTG issued before the date of the enactment of the Clean Air Act Amendments of 1990.

(C) All other major stationary sources of VOCs that are located in the area.

Each revision described in subparagraph (A) shall be submitted within the period set forth by the Administrator in issuing the relevant CTG document. The revisions with respect to sources described in subparagraphs (B) and (C) shall be submitted by 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, and shall provide for the implementation of the required measures as expeditiously as practicable but no later than May 31, 1995.

(3) GASOLINE VAPOR RECOVERY.—

(A) GENERAL RULE.—Not later than 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision to the applicable implementation plan to require all owners or operators of gasoline dispensing systems to install and operate, by the date prescribed under subparagraph (B), a system for gasoline vapor recovery of emissions from the fueling of motor vehicles. The Administrator shall issue guidance as appropriate as to the effectiveness of such system. This subparagraph shall apply only to facilities which sell more than 10,000 gallons of gasoline per month (50,000 gallons per month in the case of an independent small business marketer of gasoline as defined in section 325).

(B) EFFECTIVE DATE.—The date required under subparagraph (A) shall be—

(i) 6 months after the adoption date, in the case of gasoline dispensing facilities for which construction commenced after the date of the enactment of the Clean Air Act Amendments of 1990;

(ii) one year after the adoption date, in the case of gasoline dispensing facilities which dispense at least 100,000 gallons of gasoline per month, based on average monthly sales for the 2-year period before the adoption date; or

(iii) 2 years after the adoption date, in the case of all other gasoline dispensing facilities.

Any gasoline dispensing facility described under both clause (i) and clause (ii) shall meet the requirements of clause (i).

(C) REFERENCE TO TERMS.—For purposes of this paragraph, any reference to the term “adoption date” shall be considered a reference to the date of adoption by the State of requirements for the installa-

tion and operation of a system for gasoline vapor recovery of emissions from the fueling of motor vehicles.

(4) **MOTOR VEHICLE INSPECTION AND MAINTENANCE.**—For all Moderate Areas, the State shall submit, immediately after the date of the enactment of the Clean Air Act Amendments of 1990, a revision to the applicable implementation plan that includes provisions necessary to provide for a vehicle inspection and maintenance program as described in subsection (a)(2)(B) (without regard to whether or not the area was required by section 172(b)(11)(B) (as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990) to have included a specific schedule for implementation of such a program).

(5) **GENERAL OFFSET REQUIREMENT.**—For purposes of satisfying the emission offset requirements of this part, the ratio of total emission reductions of volatile organic compounds to total increase emissions of such air pollutant shall be at least 1.15 to 1.

(c) **SERIOUS AREAS.**—Except as otherwise specified in paragraph (4), each State in which all or part of a Serious Area is located shall, with respect to the Serious Area (or portion thereof, to the extent specified in this subsection), make the submissions described under subsection (b) (relating to Moderate Areas), and shall also submit the revisions to the applicable implementation plan (including the plan items) described under this subsection. For any Serious Area, the terms “major source” and “major stationary source” include (in addition to the sources described in section 302) any stationary source or group of sources located within a contiguous area and under common control that emits, or has the potential to emit, at least 50 tons per year of volatile organic compounds.

(1) **ENHANCED MONITORING.**—In order to obtain more comprehensive and representative data on ozone air pollution, not later than 18 months after the date of the enactment of the Clean Air Act Amendments of 1990 the Administrator shall promulgate rules, after notice and public comment, for enhanced monitoring of ozone, oxides of nitrogen, and volatile organic compounds. The rules shall, among other things, cover the location and maintenance of monitors. Immediately following the promulgation of rules by the Administrator relating to enhanced monitoring, the State shall commence such actions as may be necessary to adopt and implement a program based on such rules, to improve monitoring for ambient concentrations of ozone, oxides of nitrogen and volatile organic compounds and to improve monitoring of emissions of oxides of nitrogen and volatile organic compounds. Each State implementation plan for the area shall contain measures to improve their ambient monitoring of such air pollutants.

(2) **ATTAINMENT AND REASONABLE FURTHER PROGRESS DEMONSTRATIONS.**—Within 4 years after the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision to the applicable implementation plan that includes each of the following:

(A) ATTAINMENT DEMONSTRATION.—A demonstration that the plan, as revised, will provide for attainment of the ozone national ambient air quality standard by the applicable attainment date. This attainment demonstration must be based on photochemical grid modeling or any other analytical method determined by the Administrator, in the Administrator's discretion, to be at least as effective.

(B) REASONABLE FURTHER PROGRESS DEMONSTRATION.—A demonstration that the plan, as revised, will result in VOC emissions reductions from the baseline emissions described in subsection (b)(1)(B) equal to the following amount averaged over each consecutive 3-year period beginning 6 years after the date of the enactment of the Clean Air Act Amendments of 1990, until the attainment date:

(i) at least 3 percent of baseline emissions each year; or

(ii) an amount less than 3 percent of such baseline emissions each year, if the State demonstrates to the satisfaction of the Administrator that the plan reflecting such lesser amount includes all measures that can feasibly be implemented in the area, in light of technological achievability.

To lessen the 3 percent requirement under clause (ii), a State must demonstrate to the satisfaction of the Administrator that the plan for the area includes the measures that are achieved in practice by sources in the same source category in nonattainment areas of the next higher classification. Any determination to lessen the 3 percent requirement shall be reviewed at each milestone under section 182(g) and revised to reflect such new measures (if any) achieved in practice by sources in the same category in any State, allowing a reasonable time to implement such measures. The emission reductions described in this subparagraph shall be calculated in accordance with subsection (b)(1)(C) and (D)(concerning creditability of reductions). The reductions creditable for the period beginning 6 years after the date of the enactment of the Clean Air Act Amendments of 1990, shall include reductions that occurred before such period, computed in accordance with subsection (b)(1), that exceed the 15-percent amount of reductions required under subsection (b)(1)(A).

(C) NO_x CONTROL.—The revision may contain, in lieu of the demonstration required under subparagraph (B), a demonstration to the satisfaction of the Administrator that the applicable implementation plan, as revised, provides for reductions of emissions of VOC's and oxides of nitrogen (calculated according to the creditability provisions of subsection (b)(1)(C) and (D)), that would result in a reduction in ozone concentrations at least equivalent to that which would result from the amount of VOC emission reductions required under subparagraph (B). Within 1 year after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall issue guidance concerning the conditions under which NO_x

control may be substituted for VOC control or may be combined with VOC control in order to maximize the reduction in ozone air pollution. In accord with such guidance, a lesser percentage of VOCs may be accepted as an adequate demonstration for purposes of this subsection.

(3) ENHANCED VEHICLE INSPECTION AND MAINTENANCE PROGRAM.—

(A) REQUIREMENT FOR SUBMISSION.—Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision to the applicable implementation plan to provide for an enhanced program to reduce hydrocarbon emissions and NO_x emissions from in-use motor vehicles registered in each urbanized area (in the nonattainment area), as defined by the Bureau of the Census, with a 1980 population of 200,000 or more.

(B) EFFECTIVE DATE OF STATE PROGRAMS; GUIDANCE.—The State program required under subparagraph (A) shall take effect no later than 2 years from the date of the enactment of the Clean Air Act Amendments of 1990, and shall comply in all respects with guidance published in the Federal Register (and from time to time revised) by the Administrator for enhanced vehicle inspection and maintenance programs. Such guidance shall include—

(i) a performance standard achievable by a program combining emission testing, including on-road emission testing, with inspection to detect tampering with emission control devices and misfueling for all light-duty vehicles and all light-duty trucks subject to standards under section 202; and

(ii) program administration features necessary to reasonably assure that adequate management resources, tools, and practices are in place to attain and maintain the performance standard.

Compliance with the performance standard under clause (i) shall be determined using a method to be established by the Administrator.

(C) STATE PROGRAM.—The State program required under subparagraph (A) shall include, at a minimum, each of the following elements—

(i) Computerized emission analyzers, including on-road testing devices.

(ii) No waivers for vehicles and parts covered by the emission control performance warranty as provided for in section 207(b) unless a warranty remedy has been denied in writing, or for tampering-related repairs.

(iii) In view of the air quality purpose of the program, if, for any vehicle, waivers are permitted for emissions-related repairs not covered by warranty, an expenditure to qualify for the waiver of an amount of \$450 or more for such repairs (adjusted annually as determined by the Administrator on the

basis of the Consumer Price Index in the same manner as provided in title V).

(iv) Enforcement through denial of vehicle registration (except for any program in operation before the date of the enactment of the Clean Air Act Amendments of 1990 whose enforcement mechanism is demonstrated to the Administrator to be more effective than the applicable vehicle registration program in assuring that noncomplying vehicles are not operated on public roads).

(v) Annual emission testing and necessary adjustment, repair, and maintenance, unless the State demonstrates to the satisfaction of the Administrator that a biennial inspection, in combination with other features of the program which exceed the requirements of this Act, will result in emission reductions which equal or exceed the reductions which can be obtained through such annual inspections.

(vi) Operation of the program on a centralized basis, unless the State demonstrates to the satisfaction of the Administrator that a decentralized program will be equally effective. An electronically connected testing system, a licensing system, or other measures (or any combination thereof) may be considered, in accordance with criteria established by the Administrator, as equally effective for such purposes.

(vii) Inspection of emission control diagnostic systems and the maintenance or repair of malfunctions or system deterioration identified by or affecting such diagnostics systems.

Each State shall biennially prepare a report to the Administrator which assesses the emission reductions achieved by the program required under this paragraph based on data collected during inspection and repair of vehicles. The methods used to assess the emission reductions shall be those established by the Administrator.

(4) CLEAN-FUEL VEHICLE PROGRAMS.—(A) Except to the extent that substitute provisions have been approved by the Administrator under subparagraph (B), the State shall submit to the Administrator, within 42 months of the date of the enactment of the Clean Air Act Amendments of 1990, a revision to the applicable implementation plan for each area described under part C of title II to include such measures as may be necessary to ensure the effectiveness of the applicable provisions of the clean-fuel vehicle program prescribed under part C of title II, including all measures necessary to make the use of clean alternative fuels in clean-fuel vehicles (as defined in part C of title II) economic from the standpoint of vehicle owners. Such a revision shall also be submitted for each

area that opts into the clean fuel-vehicle program as provided in part C of title II.

(B) The Administrator shall approve, as a substitute for all or a portion of the clean-fuel vehicle program prescribed under part C of title II, any revision to the relevant applicable implementation plan that in the Administrator's judgment will achieve long-term reductions in ozone-producing and toxic air emissions equal to those achieved under part C of title II, or the percentage thereof attributable to the portion of the clean-fuel vehicle program for which the revision is to substitute. The Administrator may approve such revision only if it consists exclusively of provisions other than those required under this Act for the area. Any State seeking approval of such revision must submit the revision to the Administrator within 24 months of the date of the enactment of the Clean Air Act Amendments of 1990. The Administrator shall approve or disapprove any such revision within 30 months of the date of the enactment of the Clean Air Act Amendments of 1990. The Administrator shall publish the revision submitted by a State in the Federal Register upon receipt. Such notice shall constitute a notice of proposed rulemaking on whether or not to approve such revision and shall be deemed to comply with the requirements concerning notices of proposed rulemaking contained in sections 553 through 557 of title 5 of the United States Code (related to notice and comment). Where the Administrator approves such revision for any area, the State need not submit the revision required by subparagraph (A) for the area with respect to the portions of the Federal clean-fuel vehicle program for which the Administrator has approved the revision as a substitute.

(C) If the Administrator determines, under section 179, that the State has failed to submit any portion of the program required under subparagraph (A), then, in addition to any sanctions available under section 179, the State may not receive credit, in any demonstration of attainment or reasonable further progress for the area, for any emission reductions from implementation of the corresponding aspects of the Federal clean-fuel vehicle requirements established in part C of title II.

(5) TRANSPORTATION CONTROL.—(A) Beginning 6 years after the date of the enactment of the Clean Air Act Amendments of 1990 and each third year thereafter, the State shall submit a demonstration as to whether current aggregate vehicle mileage, aggregate vehicle emissions, congestion levels, and other relevant parameters are consistent with those used for the area's demonstration of attainment. Where such parameters and emissions levels exceed the levels projected for purposes of the area's attainment demonstration, the State shall within 18 months develop and submit a revision of the applicable implementation plan that includes a transportation control measures program consisting of measures from, but not limited to, section 108(f) that will reduce emissions to levels that

are consistent with emission levels projected in such demonstration. In considering such measures, the State should ensure adequate access to downtown, other commercial, and residential areas and should avoid measures that increase or relocate emissions and congestion rather than reduce them. Such revision shall be developed in accordance with guidance issued by the Administrator pursuant to section 108(e) and with the requirements of section 174(b) and shall include implementation and funding schedules that achieve expeditious emissions reductions in accordance with implementation plan projections.

(6) DE MINIMIS RULE.—The new source review provisions under this part shall ensure that increased emissions of volatile organic compounds resulting from any physical change in, or change in the method of operation of, a stationary source located in the area shall not be considered de minimis for purposes of determining the applicability of the permit requirements established by this Act unless the increase in net emissions of such air pollutant from such source does not exceed 25 tons when aggregated with all other net increases in emissions from the source over any period of 5 consecutive calendar years which includes the calendar year in which such increase occurred.

(7) SPECIAL RULE FOR MODIFICATIONS OF SOURCES EMITTING LESS THAN 100 TONS.—In the case of any major stationary source of volatile organic compounds located in the area (other than a source which emits or has the potential to emit 100 tons or more of volatile organic compounds per year), whenever any change (as described in section 111(a)(4)) at that source results in any increase (other than a de minimis increase) in emissions of volatile organic compounds from any discrete operation, unit, or other pollutant emitting activity at the source, such increase shall be considered a modification for purposes of section 172(c)(5) and section 173(a), except that such increase shall not be considered a modification for such purposes if the owner or operator of the source elects to offset the increase by a greater reduction in emissions of volatile organic compounds concerned from other operations, units, or activities within the source at an internal offset ratio of at least 1.3 to 1. If the owner or operator does not make such election, such change shall be considered a modification for such purposes, but in applying section 173(a)(2) in the case of any such modification, the best available control technology (BACT), as defined in section 169, shall be substituted for the lowest achievable emission rate (LAER). The Administrator shall establish and publish policies and procedures for implementing the provisions of this paragraph.

(8) SPECIAL RULE FOR MODIFICATIONS OF SOURCES EMITTING 100 TONS OR MORE.—In the case of any major stationary source of volatile organic compounds located in the area which emits or has the potential to emit 100 tons or more of volatile organic compounds per year, whenever any change (as described in section 111(a)(4)) at that source results in any increase (other than a de minimis increase) in emissions of volatile organic compounds from any discrete operation, unit, or other pollutant emitting activity at the source, such increase shall be considered a

modification for purposes of section 172(c)(5) and section 173(a), except that if the owner or operator of the source elects to offset the increase by a greater reduction in emissions of volatile organic compounds from other operations, units, or activities within the source at an internal offset ratio of at least 1.3 to 1, the requirements of section 173(a)(2)(concerning the lowest achievable emission rate (LAER)) shall not apply.

(9) CONTINGENCY PROVISIONS.—In addition to the contingency provisions required under section 172(c)(9), the plan revision shall provide for the implementation of specific measures to be undertaken if the area fails to meet any applicable milestone. Such measures shall be included in the plan revision as contingency measures to take effect without further action by the State or the Administrator upon a failure by the State to meet the applicable milestone.

(10) GENERAL OFFSET REQUIREMENT.—For purposes of satisfying the emission offset requirements of this part, the ratio of total emission reductions of volatile organic compounds to total increase emissions of such air pollutant shall be at least 1.2 to 1.

Any reference to “attainment date” in subsection (b), which is incorporated by reference into this subsection, shall refer to the attainment date for serious areas.

(d) SEVERE AREAS.—Each State in which all or part of a Severe Area is located shall, with respect to the Severe Area, make the submissions described under subsection (c) (relating to Serious Areas), and shall also submit the revisions to the applicable implementation plan (including the plan items) described under this subsection. For any Severe Area, the terms “major source” and “major stationary source” include (in addition to the sources described in section 302) any stationary source or group of sources located within a contiguous area and under common control that emits, or has the potential to emit, at least 25 tons per year of volatile organic compounds.

(1) VEHICLE MILES TRAVELED.—(A) Within 2 years after the date of enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision that identifies and adopts specific enforceable transportation control strategies and transportation control measures to offset any growth in emissions from growth in vehicle miles traveled or numbers of vehicle trips in such area and to attain reduction in motor vehicle emissions as necessary, in combination with other emission reduction requirements of this subpart, to comply with the requirements of subsection (b)(2)(B) and (c)(2)(B) (pertaining to periodic emissions reduction requirements). The State shall consider measures specified in section 108(f), and choose from among and implement such measures as necessary to demonstrate attainment with the national ambient air quality standards; in considering such measures, the State should ensure adequate access to downtown, other commercial, and residential areas and should avoid measures that increase or relocate emissions and congestion rather than reduce them.

(B) Within 2 years after the date of enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision requiring employers in such area to implement programs to reduce work-related vehicle trips and miles traveled by employees. Such revision shall be developed in accordance with guidance issued by the Administrator pursuant to section 108(f) and shall, at a minimum, require that each employer of 100 or more persons in such area increase average passenger occupancy per vehicle in commuting trips between home and the workplace during peak travel periods by not less than 25 percent above the average vehicle occupancy for all such trips in the area at the time the revision is submitted. The guidance of the Administrator may specify average vehicle occupancy rates which vary for locations within a nonattainment area (suburban, center city, business district) or among nonattainment areas reflecting existing occupancy rates and the availability of high occupancy modes. The revision shall provide that each employer subject to a vehicle occupancy requirement shall submit a compliance plan within 2 years after the date the revision is submitted which shall convincingly demonstrate compliance with the requirements of this paragraph not later than 4 years after such date.

(2) OFFSET REQUIREMENT.—For purposes of satisfying the offset requirements pursuant to this part, the ratio of total emission reductions of VOCs to total increased emissions of such air pollutant shall be at least 1.3 to 1, except that if the State plan requires all existing major sources in the nonattainment area to use best available control technology (as defined in section 169(3)) for the control of volatile organic compounds, the ratio shall be at least 1.2 to 1.

(3) ENFORCEMENT UNDER SECTION 185.—By December 31, 2000, the State shall submit a plan revision which includes the provisions required under section 185.

Any reference to the term “attainment date” in subsection (b) or (c), which is incorporated by reference into this subsection (d), shall refer to the attainment date for Severe Areas.

(e) EXTREME AREAS.—Each State in which all or part of an Extreme Area is located shall, with respect to the Extreme Area, make the submissions described under subsection (d) (relating to Severe Areas), and shall also submit the revisions to the applicable implementation plan (including the plan items) described under this subsection. The provisions of clause (ii) of subsection (c)(2)(B) (relating to reductions of less than 3 percent), the provisions of paragraphs (6), (7) and (8) of subsection (c) (relating to de minimus rule and modification of sources), and the provisions of clause (ii) of subsection (b)(1)(A) (relating to reductions of less than 15 percent) shall not apply in the case of an Extreme Area. For any Extreme Area, the terms “major source” and “major stationary source” includes (in addition to the sources described in section 302) any stationary source or group of sources located within a contiguous area and under common control that emits, or has the potential to emit, at least 10 tons per year of volatile organic compounds.

(1) **OFFSET REQUIREMENT.**—For purposes of satisfying the offset requirements pursuant to this part, the ratio of total emission reductions of VOCs to total increased emissions of such air pollutant shall be at least 1.5 to 1, except that if the State plan requires all existing major sources in the nonattainment area to use best available control technology (as defined in section 169(3)) for the control of volatile organic compounds, the ratio shall be at least 1.2 to 1.

(2) **MODIFICATIONS.**—Any change (as described in section 111(a)(4)) at a major stationary source which results in any increase in emissions from any discrete operation, unit, or other pollutant emitting activity at the source shall be considered a modification for purposes of section 172(c)(5) and section 173(a), except that for purposes of complying with the offset requirement pursuant to section 173(a)(1), any such increase shall not be considered a modification if the owner or operator of the source elects to offset the increase by a greater reduction in emissions of the air pollutant concerned from other discrete operations, units, or activities within the source at an internal offset ratio of at least 1.3 to 1. The offset requirements of this part shall not be applicable in Extreme Areas to a modification of an existing source if such modification consists of installation of equipment required to comply with the applicable implementation plan, permit, or this Act.

(3) **USE OF CLEAN FUELS OR ADVANCED CONTROL TECHNOLOGY.**—For Extreme Areas, a plan revision shall be submitted within 3 years after the date of the enactment of the Clean Air Act Amendments of 1990 to require, effective 8 years after such date, that each new, modified, and existing electric utility and industrial and commercial boiler which emits more than 25 tons per year of oxides of nitrogen—

(A) burn as its primary fuel natural gas, methanol, or ethanol (or a comparably low polluting fuel), or

(B) use advanced control technology (such as catalytic control technology or other comparably effective control methods) for reduction of emissions of oxides of nitrogen.

For purposes of this subsection, the term “primary fuel” means the fuel which is used 90 percent or more of the operating time. This paragraph shall not apply during any natural gas supply emergency (as defined in title III of the Natural Gas Policy Act of 1978).

(4) **TRAFFIC CONTROL MEASURES DURING HEAVY TRAFFIC HOURS.**—For Extreme Areas, each implementation plan revision under this subsection may contain provisions establishing traffic control measures applicable during heavy traffic hours to reduce the use of high polluting vehicles or heavy-duty vehicles, notwithstanding any other provision of law.

(5) **NEW TECHNOLOGIES.**—The Administrator may, in accordance with section 110, approve provisions of an implementation plan for an Extreme Area which anticipate development of new control techniques or improvement of existing control technologies, and an attainment demon-

stration based on such provisions, if the State demonstrates to the satisfaction of the Administrator that—

(A) such provisions are not necessary to achieve the incremental emission reductions required during the first 10 years after the date of the enactment of the Clean Air Act Amendments of 1990; and

(B) the State has submitted enforceable commitments to develop and adopt contingency measures to be implemented as set forth herein if the anticipated technologies do not achieve planned reductions.

Such contingency measures shall be submitted to the Administrator no later than 3 years before proposed implementation of the plan provisions and approved or disapproved by the Administrator in accordance with section 110. The contingency measures shall be adequate to produce emission reductions sufficient, in conjunction with other approved plan provisions, to achieve the periodic emission reductions required by subsection (b)(1) or (c)(2) and attainment by the applicable dates. If the Administrator determines that an Extreme Area has failed to achieve an emission reduction requirement set forth in subsection (b)(1) or (c)(2), and that such failure is due in whole or part to an inability to fully implement provisions approved pursuant to this subsection, the Administrator shall require the State to implement the contingency measures to the extent necessary to assure compliance with subsections (b)(1) and (c)(2).

Any reference to the term “attainment date” in subsection (b), (c), or (d) which is incorporated by reference into this subsection, shall refer to the attainment date for Extreme Areas.

(f) **NO_x REQUIREMENTS.**—(1) The plan provisions required under this subpart for major stationary sources of volatile organic compounds shall also apply to major stationary sources (as defined in section 302 and subsections (c), (d), and (e) of this section) of oxides of nitrogen. This subsection shall not apply in the case of oxides of nitrogen for those sources for which the Administrator determines (when the Administrator approves a plan or plan revision) that net air quality benefits are greater in the absence of reductions of oxides of nitrogen from the sources concerned. This subsection shall also not apply in the case of oxides of nitrogen for—

(A) nonattainment areas not within an ozone transport region under section 184 if the Administrator determines (when the Administrator approves a plan or plan revision) that additional reductions of oxides of nitrogen would not contribute to attainment of the national ambient air quality standard for ozone in the area, or

(B) nonattainment areas within such an ozone transport region if the Administrator determines (when the Administrator approves a plan or plan revision) that additional reductions of oxides of nitrogen would not produce net ozone air quality benefits in such region.

The Administrator shall, in the Administrator's determinations, consider the study required under section 185B.

(2)(A) If the Administrator determines that excess reductions in emissions of NO_x would be achieved under paragraph (1), the Administrator may limit the application of paragraph (1) to the extent necessary to avoid achieving such excess reductions.

(B) For purposes of this paragraph, excess reductions in emissions of NO_x are emission reductions for which the Administrator determines that net air quality benefits are greater in the absence of such reductions. Alternatively, for purposes of this paragraph, excess reductions in emissions of NO_x are, for—

(i) nonattainment areas not within an ozone transport region under section 184, emission reductions that the Administrator determines would not contribute to attainment of the national ambient air quality standard for ozone in the area, or

(ii) nonattainment areas within such ozone transport region, emission reductions that the Administrator determines would not produce net ozone air quality benefits in such region.

(3) At any time after the final report under section 185B is submitted to Congress, a person may petition the Administrator for a determination under paragraph (1) or (2) with respect to any nonattainment area or any ozone transport region under section 184. The Administrator shall grant or deny such petition within 6 months after its filing with the Administrator.

(g) MILESTONES.

(1) REDUCTIONS IN EMISSIONS.—6 years after the date of the enactment of the Clean Air Amendments of 1990 and at intervals of every 3 years thereafter, the State shall determine whether each nonattainment area (other than an area classified as Marginal or Moderate) has achieved a reduction in emissions during the preceding intervals equivalent to the total emission reductions required to be achieved by the end of such interval pursuant to subsection (b)(1) and the corresponding requirements of subsections (c)(2)(B) and (C), (d), and (e). Such reduction shall be referred to in this section as an applicable milestone.

(2) COMPLIANCE DEMONSTRATION.—For each nonattainment area referred to in paragraph (1), not later than 90 days after the date on which an applicable milestone occurs (not including an attainment date on which a milestone occurs in cases where the standard has been attained), each State in which all or part of such area is located shall submit to the Administrator a demonstration that the milestone has been met. A demonstration under this paragraph shall be submitted in such form and manner, and shall contain such information and analysis, as the Administrator shall require, by rule. The Administrator shall determine whether or not a State's demonstration is adequate within 90 days after

the Administrator's receipt of a demonstration which contains the information and analysis required by the Administrator.

(3) **SERIOUS AND SEVERE AREAS; STATE ELECTION.**—If a State fails to submit a demonstration under paragraph (2) for any Serious or Severe Area within the required period or if the Administrator determines that the area has not met any applicable milestone, the State shall elect, within 90 days after such failure or determination—

(A) to have the area reclassified to the next higher classification,

(B) to implement specific additional measures adequate, as determined by the Administrator, to meet the next milestone as provided in the applicable contingency plan, or

(C) to adopt an economic incentive program as described in paragraph (4).

If the State makes an election under subparagraph (B), the Administrator shall, within 90 days after the election, review such plan and shall, if the Administrator finds the contingency plan inadequate, require further measures necessary to meet such milestone. Once the State makes an election, it shall be deemed accepted by the Administrator as meeting the election requirement. If the State fails to make an election required under this paragraph within the required 90-day period or within 6 months thereafter, the area shall be reclassified to the next higher classification by operation of law at the expiration of such 6-month period. Within 12 months after the date required for the State to make an election, the State shall submit a revision of the applicable implementation plan for the area that meets the requirements of this paragraph. The Administrator shall review such plan revision and approve or disapprove the revision within 9 months after the date of its submission.

(4) **ECONOMIC INCENTIVE PROGRAM.**—(A) An economic incentive program under this paragraph shall be consistent with rules published by the Administrator and sufficient, in combination with other elements of the State plan, to achieve the next milestone. The State program may include a nondiscriminatory system, consistent with applicable law regarding interstate commerce, of State established emissions fees or a system of marketable permits, or a system of State fees on sale or manufacture of products the use of which contributes to ozone formation, or any combination of the foregoing or other similar measures. The program may also include incentives and requirements to reduce vehicle emissions and vehicle miles traveled in the area, including any of the transportation control measures identified in section 108(f).

(B) Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall publish rules for the programs to be adopted pursuant to subparagraph (A). Such rules shall include model plan provisions which may be adopted for reducing emissions from permitted stationary sources, area sources, and mobile sources. The guidelines shall require that any revenues

generated by the plan provisions adopted pursuant to subparagraph (A) shall be used by the State for any of the following:

(i) Providing incentives for achieving emission reductions.

(ii) Providing assistance for the development of innovative technologies for the control of ozone air pollution and for the development of lower-polluting solvents and surface coatings. Such assistance shall not provide for the payment of more than 75 percent of either the costs of any project to develop such a technology or the costs of development of a lower-polluting solvent or surface coating.

(iii) Funding the administrative costs of State programs under this Act. Not more than 50 percent of such revenues may be used for purposes of this clause.

(5) **EXTREME AREAS.**—If a State fails to submit a demonstration under paragraph (2) for any Extreme Area within the required period, or if the Administrator determines that the area has not met any applicable milestone, the State shall, within 9 months after such failure or determination, submit a plan revision to implement an economic incentive program which meets the requirements of paragraph (4). The Administrator shall review such plan revision and approve or disapprove the revision within 9 months after the date of its submission.

(h) **RURAL TRANSPORT AREAS.**—(1) Notwithstanding any other provision of section 181 or this section, a State containing an ozone nonattainment area that does not include, and is not adjacent to, any part of a Metropolitan Statistical Area or, where one exists, a Consolidated Metropolitan Statistical Area (as defined by the United States Bureau of the Census), which area is treated by the Administrator, in the Administrator's discretion, as a rural transport area within the meaning of paragraph (2), shall be treated by operation of law as satisfying the requirements of this section if it makes the submissions required under subsection (a) of this section (relating to marginal areas).

(2) The Administrator may treat an ozone nonattainment area as a rural transport area if the Administrator finds that sources of VOC (and where the Administrator determines relevant, NO_x) emissions within the area do not make a significant contribution to the ozone concentrations measured in the area or in other areas.

(i) **RECLASSIFIED AREAS.**—Each State containing an ozone nonattainment area reclassified under section 181(b)(2) shall meet such requirements of subsections (b) through (d) of this section as may be applicable to the area as reclassified, according to the schedules prescribed in connection with such requirements, except that the Administrator may adjust any applicable deadlines (other than attainment dates) to the extent such adjustment is necessary or appropriate to assure consistency among the required submissions.

(j) **MULTI-STATE OZONE NONATTAINMENT AREAS.**—

(1) COORDINATION AMONG STATES.—Each State in which there is located a portion of a single ozone nonattainment area which covers more than one State (hereinafter in this section referred to as a “multi-State ozone nonattainment area”) shall—

(A) take all reasonable steps to coordinate, substantively and procedurally, the revisions and implementation of State implementation plans applicable to the nonattainment area concerned; and

(B) use photochemical grid modeling or any other analytical method determined by the Administrator, in his discretion, to be at least as effective.

The Administrator may not approve any revision of a State implementation plan submitted under this part for a State in which part of a multi-State ozone nonattainment area is located if the plan revision for that State fails to comply with the requirements of this subsection.

(2) FAILURE TO DEMONSTRATE ATTAINMENT.—If any State in which there is located a portion of a multi-State ozone nonattainment area fails to provide a demonstration of attainment of the national ambient air quality standard for ozone in that portion within the required period, the State may petition the Administrator to make a finding that the State would have been able to make such demonstration but for the failure of one or more other States in which other portions of the area are located to commit to the implementation of all measures required under section 182 (relating to plan submissions and requirements for ozone nonattainment areas). If the Administrator makes such finding, the provisions of section 179 (relating to sanctions) shall not apply, by reason of the failure to make such demonstration, in the portion of the multi-State ozone nonattainment area within the State submitting such petition.

[¶ 2183]

Sec. 183. FEDERAL OZONE MEASURES.

(a) CONTROL TECHNIQUES GUIDELINES FOR VOC SOURCES.—Within 3 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall issue control techniques guidelines, in accordance with section 108, for 11 categories of stationary sources of VOC emissions for which such guidelines have not been issued as of such date of enactment, not including the categories referred to in paragraphs (3) and (4) of subsection (b) of this section. The Administrator may issue such additional control techniques guidelines as the Administrator deems necessary.

(b) EXISTING AND NEW CTGS.—(1) Within 36 months after the date of the enactment of the Clean Air Act Amendments of 1990, and periodically thereafter, the Administrator shall review and, if necessary, update control technique guidance issued under section 108 before the date of the enactment of the Clean Air Act Amendments of 1990.

(2) In issuing the guidelines the Administrator shall give priority to those categories which the Administrator considers to make the most

significant contribution to the formation of ozone air pollution in ozone nonattainment areas, including hazardous waste treatment, storage, and disposal facilities which are permitted under subtitle C of the Solid Waste Disposal Act. Thereafter the Administrator shall periodically review and, if necessary, revise such guidelines.

(3) Within 3 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall issue control techniques guidelines in accordance with section 108 to reduce the aggregate emissions of volatile organic compounds into the ambient air from aerospace coatings and solvents. Such control techniques guidelines shall, at a minimum, be adequate to reduce aggregate emissions of volatile organic compounds into the ambient air from the application of such coatings and solvents to such level as the Administrator determines may be achieved through the adoption of best available control measures. Such control technology guidance shall provide for such reductions in such increments and on such schedules as the Administrator determines to be reasonable, but in no event later than 10 years after the final issuance of such control technology guidance. In developing control technology guidance under this subsection, the Administrator shall consult with the Secretary of Defense, the Secretary of Transportation, and the Administrator of the National Aeronautics and Space Administration with regard to the establishment of specifications for such coatings. In evaluating VOC reduction strategies, the guidance shall take into account the applicable requirements of section 112 and the need to protect stratospheric ozone.

(4) Within 3 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall issue control techniques guidelines in accordance with section 108 to reduce the aggregate emissions of volatile organic compounds and PM-10 into the ambient air from paints, coatings, and solvents used in ship-building operations and ship repair. Such control techniques guidelines shall, at a minimum, be adequate to reduce aggregate emissions of volatile organic compounds and PM-10 into the ambient air from the removal or application of such paints, coatings, and solvents to such level as the Administrator determines may be achieved through the adoption of the best available control measures. Such control techniques guidelines shall provide for such reductions in such increments and on such schedules as the Administrator determines to be reasonable, but in no event later than 10 years after the final issuance of such control technology guidance. In developing control techniques guidelines under this subsection, the Administrator shall consult with the appropriate Federal agencies.

(c) **ALTERNATIVE CONTROL TECHNIQUES.**—Within 3 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall issue technical documents which identify alternative controls for all categories of stationary sources of volatile organic compounds and oxides of nitrogen which emit, or have the potential to emit 25 tons per year or more of such air pollutant. The Administrator shall revise and update such documents as the Administrator determines necessary.

(d) **GUIDANCE FOR EVALUATING COST-EFFECTIVENESS.**—Within 1 year after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall provide guidance to the States to be used in evaluating the relative cost-effectiveness of various options for the control of emissions from existing stationary sources of air pollutants which contribute to nonattainment of the national ambient air quality standards for ozone.

(e) **CONTROL OF EMISSIONS FROM CERTAIN SOURCES.**—

(1) **DEFINITIONS.**—For purposes of this subsection—

(A) **BEST AVAILABLE CONTROLS.**—The term “best available controls” means the degree of emissions reduction that the Administrator determines, on the basis of technological and economic feasibility, health, environmental, and energy impacts, is achievable through the application of the most effective equipment, measures, processes, methods, systems or techniques, including chemical reformulation, product or feedstock substitution, repackaging, and directions for use, consumption, storage, or disposal.

(B) **CONSUMER OR COMMERCIAL PRODUCT.**—The term “consumer or commercial product” means any substance, product (including paints, coatings, and solvents), or article (including any container or packaging) held by any person, the use, consumption, storage, disposal, destruction, or decomposition of which may result in the release of volatile organic compounds. The term does not include fuels or fuel additives regulated under section 211, or motor vehicles, non-road vehicles, and non-road engines as defined under section 216.

(C) **REGULATED ENTITIES.**—The term “regulated entities” means—

(i) manufacturers, processors, wholesale distributors, or importers of consumer or commercial products for sale or distribution in interstate commerce in the United States; or

(ii) manufacturers, processors, wholesale distributors, or importers that supply the entities listed under clause (i) with such products for sale or distribution in interstate commerce in the United States.

(2) **STUDY AND REPORT.**—

(A) **STUDY.**—The Administrator shall conduct a study of the emissions of volatile organic compounds into the ambient air from consumer and commercial products (or any combination thereof) in order to—

(i) determine their potential to contribute to ozone levels which violate the national ambient air quality standard for ozone; and

(ii) establish criteria for regulating consumer and commercial products or classes or categories thereof which shall be subject to control under this subsection.

The study shall be completed and a report submitted to Congress not later than 3 years after the date of the enactment of the Clean Air Act Amendments of 1990.

(B) CONSIDERATION OF CERTAIN FACTORS.—In establishing the criteria under subparagraph (A)(ii), the Administrator shall take into consideration each of the following:

(i) The uses, benefits, and commercial demand of consumer and commercial products.

(ii) The health or safety functions (if any) served by such consumer and commercial products.

(iii) Those consumer and commercial products which emit highly reactive volatile organic compounds into the ambient air.

(iv) Those consumer and commercial products which are subject to the most cost-effective controls.

(v) The availability of alternatives (if any) to such consumer and commercial products which are of comparable costs, considering health, safety, and environmental impacts.

(3) REGULATIONS TO REQUIRE EMISSION REDUCTIONS.—

(A) IN GENERAL.—Upon submission of the final report under paragraph (2), the Administrator shall list those categories of consumer or commercial products that the Administrator determines, based on the study, account for at least 80 percent of the VOC emissions, on a reactivity-adjusted basis, from consumer or commercial products in areas that violate the NAAQS for ozone. Credit toward the 80 percent emissions calculation shall be given for emission reductions from consumer or commercial products made after the date of enactment of this section. At such time, the Administrator shall divide the list into 4 groups establishing priorities for regulation based on the criteria established in paragraph (2). Every 2 years after promulgating such list, the Administrator shall regulate one group of categories until all 4 groups are regulated. The regulations shall require best available controls as defined in this section. Such regulations may exempt health use products for which the Administrator determines there is no suitable substitute. In order to carry out this section, the Administrator may, by regulation, control or prohibit any activity, including the manufacture or introduction into commerce, offering for sale, or sale of any consumer or commercial product which results in emission of volatile organic compounds into the ambient air.

(B) REGULATED ENTITIES.—Regulations under this subsection may be imposed only with respect to regulated entities.

(C) USE OF CTGS.—For any consumer or commercial product the Administrator may issue control techniques guidelines under this Act in lieu of regulations required under subparagraph (A) if the Administrator determines that such guidance will be substantially as

effective as regulations in reducing emissions of volatile organic compounds which contribute to ozone levels in areas which violate the national ambient air quality standard for ozone.

(4) **SYSTEMS OF REGULATION.**—The regulations under this subsection may include any system or systems of regulation as the Administrator may deem appropriate, including requirements for registration and labeling, self-monitoring and reporting, prohibitions, limitations, or economic incentives (including marketable permits and auctions of emissions rights) concerning the manufacture, processing, distribution, use, consumption, or disposal of the product.

(5) **SPECIAL FUND.**—Any amounts collected by the Administrator under such regulations shall be deposited in a special fund in the United States Treasury for licensing and other services, which thereafter shall be available until expended, subject to annual appropriation Acts, solely to carry out the activities of the Administrator for which such fees, charges, or collections are established or made.

(6) **ENFORCEMENT.**—Any regulation established under this subsection shall be treated, for purposes of enforcement of this Act, as a standard under section 111 and any violation of such regulation shall be treated as a violation of a requirement of section 111(e).

(7) **STATE ADMINISTRATION.**—Each State may develop and submit to the Administrator a procedure under State law for implementing and enforcing regulations promulgated under this subsection. If the Administrator finds the State procedure is adequate, the Administrator shall approve such procedure. Nothing in this paragraph shall prohibit the Administrator from enforcing any applicable regulations under this subsection.

(8) **SIZE, ETC.**—No regulations regarding the size, shape, or labeling of a product may be promulgated, unless the Administrator determines such regulations to be useful in meeting any national ambient air quality standard.

(9) **STATE CONSULTATION.**—Any State which proposes regulations other than those adopted under this subsection shall consult with the Administrator regarding whether any other State or local subdivision has promulgated or is promulgating regulations on any products covered under this part. The Administrator shall establish a clearinghouse of information, studies, and regulations proposed and promulgated regarding products covered under this subsection and disseminate such information collected as requested by State or local subdivisions.

(f) **TANK VESSEL STANDARDS.**—

(1) **SCHEDULE FOR STANDARDS.**—(A) Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator, in consultation with the Secretary of the Department in which the Coast Guard is operating, shall promulgate standards applicable to the emission of VOCs and any other air pollutant from loading and unloading

of tank vessels (as that term is defined in section 2101 of title 46 of the United States Code) which the Administrator finds causes, or contributes to, air pollution that may be reasonably anticipated to endanger public health or welfare. Such standards shall require the application of reasonably available control technology, considering costs, any nonair-quality benefits, environmental impacts, energy requirements and safety factors associated with alternative control techniques. To the extent practicable such standards shall apply to loading and unloading facilities and not to tank vessels.

(B) Any regulation prescribed under this subsection (and any revision thereof) shall take effect after such period as the Administrator finds (after consultation with the Secretary of the Department in which the Coast Guard is operating) necessary to permit the development and application of the requisite technology, giving appropriate consideration to the cost of compliance within such period, except that the effective date shall not be more than 2 years after promulgation of such regulations.

(2) REGULATIONS ON EQUIPMENT SAFETY.—Within 6 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Secretary of the Department in which the Coast Guard is operating shall issue regulations to ensure the safety of the equipment and operations which are to control emissions from the loading and unloading of tank vessels, under section 3703 of title 46 of the United States Code and section 6 of the Ports and Waterways Safety Act (33 U.S.C. 1225). The standards promulgated by the Administrator under paragraph (1) and the regulations issued by a State or political subdivision regarding emissions from the loading and unloading of tank vessels shall be consistent with the regulations regarding safety of the Department in which the Coast Guard is operating.

(3) AGENCY AUTHORITY.—(A) The Administrator shall ensure compliance with the tank vessel emission standards prescribed under paragraph (1)(A). The Secretary of the Department in which the Coast Guard is operating shall also ensure compliance with the tank vessel standards prescribed under paragraph (1)(A).

(B) The Secretary of the Department in which the Coast Guard is operating shall ensure compliance with the regulations issued under paragraph (2).

(4) STATE OR LOCAL STANDARDS.—After the Administrator promulgates standards under this section, no State or political subdivision thereof may adopt or attempt to enforce any standard respecting emissions from tank vessels subject to regulation under paragraph (1) unless such standard is no less stringent than the standards promulgated under paragraph (1).

(5) ENFORCEMENT.—Any standard established under paragraph (1)(A) shall be treated, for purposes of enforcement of this Act, as a

standard under section 111 and any violation of such standard shall be treated as a violation of a requirement of section 111(e).

(g) **OZONE DESIGN VALUE STUDY.**—The Administrator shall conduct a study of whether the methodology in use by the Environmental Protection Agency as of the date of the enactment of the Clean Air Act Amendments of 1990 for establishing a design value for ozone provides a reasonable indicator of the ozone air quality of ozone nonattainment areas. The Administrator shall obtain input from States, local subdivisions thereof, and others. The study shall be completed and a report submitted to Congress not later than 3 years after the date of the enactment of the Clean Air Act Amendments of 1990. The results of the study shall be subject to peer and public review before submitting it to Congress.

¶ 2184]

Sec. 184. CONTROL OF INTERSTATE OZONE AIR POLLUTION.

(a) **OZONE TRANSPORT REGIONS.**—A single transport region for ozone (within the meaning of section 176A(a)), comprised of the States of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and the Consolidated Metropolitan Statistical Area that includes the District of Columbia, is hereby established by operation of law. The provisions of section 176A(a)(1) and (2) shall apply with respect to the transport region established under this section and any other transport region established for ozone, except to the extent inconsistent with the provisions of this section. The Administrator shall convene the commission required (under section 176A(b)) as a result of the establishment of such region within 6 months of the date of the enactment of the Clean Air Act Amendments of 1990.

(b) **PLAN PROVISIONS FOR STATES IN OZONE TRANSPORT REGIONS.**—(1) In accordance with section 110, not later than 2 years after the date of the enactment of the Clean Air Act Amendments of 1990 (or 9 months after the subsequent inclusion of a State in a transport region established for ozone), each State included within a transport region established for ozone shall submit a State implementation plan or revision thereof to the Administrator which requires the following—

(A) that each area in such State that is in an ozone transport region, and that is a metropolitan statistical area or part thereof with a population of 100,000 or more comply with the provisions of section 182(c)(2)(A) (pertaining to enhanced vehicle inspection and maintenance programs); and

(B) implementation of reasonably available control technology with respect to all sources of volatile organic compounds in the State covered by a control techniques guideline issued before or after the date of the enactment of the Clean Air Act Amendments of 1990.

(2) Within 3 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall complete a study identifying control measures capable of achieving emission reductions

comparable to those achievable through vehicle refueling controls contained in section 182(b)(3), and such measures or such vehicle refueling controls shall be implemented in accordance with the provisions of this section. Notwithstanding other deadlines in this section, the applicable implementation plan shall be revised to reflect such measures within 1 year of completion of the study. For purposes of this section any stationary source that emits or has the potential to emit at least 50 tons per year of volatile organic compounds shall be considered a major stationary source and subject to the requirements which would be applicable to major stationary sources if the area were classified as a Moderate nonattainment area.

(c) ADDITIONAL CONTROL MEASURES.—

(1) RECOMMENDATIONS.—Upon petition of any State within a transport region established for ozone, and based on a majority vote of the Governors on the Commission (or their designees), the Commission may, after notice and opportunity for public comment, develop recommendations for additional control measures to be applied within all or a part of such transport region if the commission determines such measures are necessary to bring any area in such region into attainment by the dates provided by this subpart. The commission shall transmit such recommendations to the Administrator.

(2) NOTICE AND REVIEW.—Whenever the Administrator receives recommendations prepared by a commission pursuant to paragraph (1) (the date of receipt of which shall hereinafter in this section be referred to as the “receipt date”), the Administrator shall—

(A) immediately publish in the Federal Register a notice stating that the recommendations are available and provide an opportunity for public hearing within 90 days beginning on the receipt date; and

(B) commence a review of the recommendations to determine whether the control measures in the recommendations are necessary to bring any area in such region into attainment by the dates provided by this subpart and are otherwise consistent with this Act.

(3) CONSULTATION.—In undertaking the review required under paragraph (2)(B), the Administrator shall consult with members of the commission of the affected States and shall take into account the data, views, and comments received pursuant to paragraph (2)(A).

(4) APPROVAL AND DISAPPROVAL.—Within 9 months after the receipt date, the Administrator shall (A) determine whether to approve, disapprove, or partially disapprove and partially approve the recommendations; (B) notify the commission in writing of such approval, disapproval, or partial disapproval; and (C) publish such determination in the Federal Register. If the Administrator disapproves or partially disapproves the recommendations, the Administrator shall specify—

(i) why any disapproved additional control measures are not necessary to bring any area in such region into attainment by the

dates provided by this subpart or are otherwise not consistent with the Act; and

(ii) recommendations concerning equal or more effective actions that could be taken by the commission to conform the disapproved portion of the recommendations to the requirements of this section.

(5) FINDING.—Upon approval or partial approval of recommendations submitted by a commission, the Administrator shall issue to each State which is included in the transport region and to which a requirement of the approved plan applies, a finding under section 110(k)(5) that the implementation plan for such State is inadequate to meet the requirements of section 110(a)(2)(D). Such finding shall require each such State to revise its implementation plan to include the approved additional control measures within one year after the finding is issued.

(d) BEST AVAILABLE AIR QUALITY MONITORING AND MODELING.—For purposes of this section, not later than 6 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate criteria for purposes of determining the contribution of sources in one area to concentrations of ozone in another area which is a nonattainment area for ozone. Such criteria shall require that the best available air quality monitoring and modeling techniques be used for purposes of making such determinations.

[¶ 2185]

Sec. 185. ENFORCEMENT FOR SEVERE AND EXTREME OZONE NONATTAINMENT AREAS FOR FAILURE TO ATTAIN.

(a) GENERAL RULE.—Each implementation plan revision required under section 182(d) and (e) (relating to the attainment plan for Severe and Extreme ozone nonattainment areas) shall provide that, if the area to which such plan revision applies has failed to attain the national primary ambient air quality standard for ozone by the applicable attainment date, each major stationary source of VOCs located in the area shall, except as otherwise provided under subsection (c), pay a fee to the State as a penalty for such failure, computed in accordance with subsection (b), for each calendar year beginning after the attainment date, until the area is redesignated as an attainment area for ozone. Each such plan revision should include procedures for assessment and collection of such fees.

(b) COMPUTATION OF FEE.—

(1) FEE AMOUNT.—The fee shall equal \$5,000, adjusted in accordance with paragraph (3), per ton of VOC emitted by the source during the calendar year in excess of 80 percent of the baseline amount, computed under paragraph (2).

(2) BASELINE AMOUNT.—For purposes of this section, the baseline amount shall be computed, in accordance with such guidance as the Administrator may provide, as the lower of the amount of actual VOC emissions (“actuals”) or VOC emissions allowed under the permit applicable to the source (or, if no such permit has been issued for the attainment

year, the amount of VOC emissions allowed under the applicable implementation plan ("allowables")) during the attainment year. Notwithstanding the preceding sentence, the Administrator may issue guidance authorizing the baseline amount to be determined in accordance with the lower of average actuals or average allowables, determined over a period of more than one calendar year. Such guidance may provide that such average calculation for a specific source may be used if that source's emissions are irregular, cyclical, or otherwise vary significantly from year to year.

(3) **ANNUAL ADJUSTMENT.**—The fee amount under paragraph (1) shall be adjusted annually, beginning in the year beginning after the year of enactment, in accordance with section 502(b)(3)(B)(v) (relating to inflation adjustment).

(c) **EXCEPTION.**—Notwithstanding any provision of this section, no source shall be required to pay any fee under subsection (a) with respect to emissions during any year that is treated as an Extension Year under section 181(a)(5).

(d) **FEE COLLECTION BY THE ADMINISTRATOR.**—If the Administrator has found that the fee provisions of the implementation plan do not meet the requirements of this section, or if the Administrator makes a finding that the State is not administering and enforcing the fee required under this section, the Administrator shall, in addition to any other action authorized under this title, collect, in accordance with procedures promulgated by the Administrator, the unpaid fees required under subsection (a). If the Administrator makes such a finding under section 179(a)(4), the Administrator may collect fees for periods before the determination, plus interest computed in accordance with section 6621(a)(2) of the Internal Revenue Code of 1986 (relating to computation of interest on underpayment of Federal taxes), to the extent the Administrator finds such fees have not been paid to the State. The provisions of clauses (ii) through (iii) of Section 502(b)(3)(C) (relating to penalties and use of the funds, respectively) shall apply with respect to fees collected under this subsection.

(e) **EXEMPTIONS FOR CERTAIN SMALL AREAS.**—For areas with a total population under 200,000 which fail to attain the standard by the applicable attainment date, no sanction under this section or under any other provision of this Act shall apply if the area can demonstrate, consistent with guidance issued by the Administrator, that attainment in the area is prevented because of ozone or ozone precursors transported from other areas. The prohibition applies only in cases in which the area has met all requirements and implemented all measures applicable to the area under this Act.

[¶ 2185A]

Sec. 185A. TRANSITIONAL AREAS.

If an area designated as an ozone nonattainment area as of the date of enactment of the Clean Air Act Amendments of 1990 has not violated the national primary ambient air quality standard for ozone for the 36-month period commencing on January 1, 1987, and ending on December 31, 1989, the Administrator shall suspend the application of the requirements of this sub-

part to such area until December 31, 1991. By June 30, 1992, the Administrator shall determine by order, based on the area's design value as of the attainment date, whether the area attained such standard by December 31, 1991. If the Administrator determines that the area attained the standard, the Administrator shall require, as part of the order, the State to submit a maintenance plan for the area within 12 months of such determination. If the Administrator determines that the area failed to attain the standard, the Administrator shall, by June 30, 1992, designate the area as nonattainment under section 107(d)(4).

[¶ 2185B]

Sec. 185B. NO_x AND VOC STUDY.

The Administrator, in conjunction with the National Academy of Sciences, shall conduct a study on the role of ozone precursors in tropospheric ozone formation and control. The study shall examine the roles of NO_x and VOC emission reductions, the extent to which NO_x reductions may contribute (or be counterproductive) to achievement of attainment in different nonattainment areas, the sensitivity of ozone to the control of NO_x, the availability and extent of controls for NO_x, the role of biogenic VOC emissions, and the basic information required for air quality models. The study shall be completed and a proposed report made public for 30 days comment within 1 year of the date of the enactment of the Clean Air Act Amendments of 1990, and a final report shall be submitted to Congress within 15 months after such date of enactment. The Administrator shall utilize all available information and studies, as well as develop additional information, in conducting the study required by this section.

Subpart 3—Additional Provisions for Carbon Monoxide Nonattainment Areas

[¶ 2186]

Sec. 186. CLASSIFICATION AND ATTAINMENT DATES.

(a) CLASSIFICATION BY OPERATION OF LAW AND ATTAINMENT DATES FOR NONATTAINMENT AREAS.—(1) Each area designated nonattainment for carbon monoxide pursuant to section 107(d) shall be classified at the time of such designation under table 1, by operation of law, as a Moderate Area or a Serious Area based on the design value for the area. The design value shall be calculated according to the interpretation methodology issued by the Administrator most recently before the date of the enactment of the Clean Air Act Amendments of 1990. For each area classified under this subsection, the primary standard attainment date for carbon monoxide shall be as expeditiously as practicable but not later than the date provided in table 1:

TABLE [1] 3

Area classifi- cation	Design value	Primary standard attainment date
Moderate	9.1-16.4 ppm	December 31, 1995
Serious	16.5 and above.	December 31, 2000

¶ 2185B Sec. 185B

(2) At the time of publication of the notice required under section 107 (designating carbon monoxide nonattainment areas), the Administrator shall publish a notice announcing the classification of each such carbon monoxide nonattainment area. The provisions of section 172(a)(1)(B) (relating to lack of notice-and-comment and judicial review) shall apply with respect to such classification.

(3) If an area classified under paragraph (1), table 1, would have been classified in another category if the design value in the area were 5 percent greater or 5 percent less than the level on which such classification was based, the Administrator may, in the Administrator's discretion, within 90 days after the date of the enactment of the Clean Air Act Amendments of 1990 by the procedure required under paragraph (2), adjust the classification of the area. In making such adjustment, the Administrator may consider the number of exceedances of the national primary ambient air quality standard for carbon monoxide in the area, the level of pollution transport between the area and the other affected areas, and the mix of sources and air pollutants in the area. The Administrator may make the same adjustment for purposes of paragraphs (2), (3), (6), and (7) of section 187(a).

(4) Upon application by any State, the Administrator may extend for 1 additional year (hereinafter in this subpart referred to as the "Extension Year") the date specified in table 1 of subsection (a) if—

(A) the State has complied with all requirements and commitments pertaining to the area in the applicable implementation plan, and

(B) no more than one exceedance of the national ambient air quality standard level for carbon monoxide has occurred in the area in the year preceding the Extension Year.

No more than 2 one-year extensions may be issued under this paragraph for a single nonattainment area.

(b) NEW DESIGNATIONS AND RECLASSIFICATIONS.—

(1) NEW DESIGNATIONS TO NONATTAINMENT.—Any area that is designated attainment or unclassifiable for carbon monoxide under section 107(d)(4), and that is subsequently redesignated to nonattainment for carbon monoxide under section 107(d)(3), shall, at the time of the redesignation, be classified by operation of law in accordance with table 1 under subsections (a)(1) and (a)(4). Upon its classification, the area shall be subject to the same requirements under section 110, subpart 1 of this part, and this subpart that would have applied had the area been so classified at the time of the notice under subsection (a)(2), except that any absolute, fixed date applicable in connection with any such requirement is extended by operation of law by a period equal to the length of time between the date of the enactment of the Clean Air Act Amendments of 1990 and the date the area is classified.

(2) RECLASSIFICATION OF MODERATE AREAS UPON FAILURE TO ATTAIN.—

(A) GENERAL RULE.—Within 6 months following the applicable attainment date for a carbon monoxide nonattainment area, the Administrator shall determine, based on the area's design value as of the attainment date, whether the area has attained the standard by that date. Any Moderate Area that the Administrator finds has not attained the standard by that date shall be reclassified by operation of law in accordance with table 1 of subsection (a)(1) as a Serious Area.

(B) PUBLICATION OF NOTICE.—The Administrator shall publish a notice in the Federal Register, no later than 6 months following the attainment date, identifying each area that the Administrator has determined, under subparagraph (A), as having failed to attain and identifying the reclassification, if any, described under subparagraph (A).

(c) REFERENCES TO TERMS.—Any reference in this subpart to a "Moderate Area" or a "Serious Area" shall be considered a reference to a Moderate Area or a Serious Area, respectively, as classified under this section.

[¶ 2187]

Sec. 187. PLAN SUBMISSIONS AND REQUIREMENTS.

(a) MODERATE AREAS.—Each State in which all or part of a Moderate Area is located shall, with respect to the Moderate Area (or portion thereof, to the extent specified in guidance of the Administrator issued before the date of the enactment of the Clean Air Act Amendments of 1990), submit to the Administrator the State implementation plan revisions (including the plan items) described under this subsection, within such periods as are prescribed under this subsection, except to the extent the State has made such submissions as of such date of enactment:

(1) INVENTORY.—No later than 2 years from the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a comprehensive, accurate, current inventory of actual emissions from all sources, as described in section 172(c)(3), in accordance with guidance provided by the Administrator.

(2)(A) VEHICLE MILES TRAVELED.—No later than 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, for areas with a design value above 12.7 ppm at the time of classification, the plan revision shall contain a forecast of vehicle miles traveled in the nonattainment area concerned for each year before the year in which the plan projects the national ambient air quality standard for carbon monoxide to be attained in the area. The forecast shall be based on guidance which shall be published by the Administrator, in consultation with the Secretary of Transportation, within 6 months after the date of the enactment of the Clean Air Act Amendments of 1990. The plan revision shall provide for annual updates of the forecasts to be submitted to the Administrator together with annual reports regarding the extent to which such forecasts proved to be accurate. Such annual reports shall contain

estimates of actual vehicle miles traveled in each year for which a forecast was required.

(B) SPECIAL RULE FOR DENVER.—Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, in the case of Denver, the State shall submit a revision that includes the transportation control measures as required in section 182(d)(1)(A) except that such revision shall be for the purpose of reducing CO emissions rather than volatile organic compound emissions. If the State fails to include any such measure, the implementation plan shall contain an explanation of why such measure was not adopted and what emissions reduction measure was adopted to provide a comparable reduction in emissions, or reasons why such reduction is not necessary to attain the national primary ambient air quality standard for carbon monoxide.

(3) CONTINGENCY PROVISIONS.—No later than 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, for areas with a design value above 12.7 ppm at the time of classification, the plan revision shall provide for the implementation of specific measures to be undertaken if any estimate of vehicle miles traveled in the area which is submitted in an annual report under paragraph (2) exceeds the number predicted in the most recent prior forecast or if the area fails to attain the national primary ambient air quality standard for carbon monoxide by the primary standard attainment date. Such measures shall be included in the plan revision as contingency measures to take effect without further action by the State or the Administrator if the prior forecast has been exceeded by an updated forecast or if the national standard is not attained by such deadline.

(4) SAVINGS CLAUSE FOR VEHICLE INSPECTION AND MAINTENANCE PROVISIONS OF THE STATE IMPLEMENTATION PLAN.—Immediately after the date of the enactment of the Clean Air Act Amendments of 1990, for any Moderate Area (or, within the Administrator's discretion, portion thereof), the plan for which is of the type described in section 182(a)(2)(B) any provisions necessary to ensure that the applicable implementation plan includes the vehicle inspection and maintenance program described in section 182(a)(2)(B).

(5) PERIODIC INVENTORY.—No later than September 30, 1995, and no later than the end of each 3 year period thereafter, until the area is redesignated to attainment, a revised inventory meeting the requirements of subsection (a)(1).

(6) ENHANCED VEHICLE INSPECTION AND MAINTENANCE.—No later than 2 years after the date of the enactment of the Clean Air Act Amendments of 1990 in the case of Moderate Areas with a design value greater than 12.7 ppm at the time of classification, a revision that includes provisions for an enhanced vehicle inspection and maintenance program as required in section 182(c)(3) (concerning serious ozone nonattainment areas), except that such program shall be for the purpose of reducing carbon monoxide rather than hydrocarbon emissions.

(7) ATTAINMENT DEMONSTRATION AND SPECIFIC ANNUAL EMISSION REDUCTIONS.—In the case of Moderate Areas with a design value greater than 12.7 ppm at the time of classification, no later than 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, a revision to provide, and a demonstration that the plan as revised will provide, for attainment of the carbon monoxide NAAQS by the applicable attainment date and provisions for such specific annual emission reductions as are necessary to attain the standard by that date.

The Administrator may, in the Administrator's discretion, require States to submit a schedule for submitting any of the revisions or other items required under this subsection. In the case of Moderate Areas with a design value of 12.7 ppm or lower at the time of classification, the requirements of this subsection shall apply in lieu of any requirement that the State submit a demonstration that the applicable implementation plan provides for attainment of the carbon monoxide standard by the applicable attainment date.

(b) SERIOUS AREAS.—

(1) IN GENERAL.—Each State in which all or part of a Serious Area is located shall, with respect to the Serious Area, make the submissions (other than those required under subsection (a)(1)(B)) applicable under subsection (a) to Moderate Areas with a design value of 12.7 ppm or greater at the time of classification, and shall also submit the revision and other items described under this subsection.

(2) VEHICLE MILES TRAVELED.—Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990 the State shall submit a revision that includes the transportation control measures as required in section 182(d)(1) except that such revision shall be for the purpose of reducing CO emissions rather than volatile organic compound emissions. In the case of any such area (other than an area in New York State) which is a covered area (as defined in section 246(a)(2)(B)) for purposes of the Clean Fuel Fleet program under part C of title II, if the State fails to include any such measure, the implementation plan shall contain an explanation of why such measure was not adopted and what emissions reduction measure was adopted to provide a comparable reduction in emissions, or reasons why such reduction is not necessary to attain the national primary ambient air quality standard for carbon monoxide.

(3) OXYGENATED GASOLINE.—(A) Within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the State shall submit a revision to require that gasoline sold, supplied, offered for sale or supply, dispensed, transported or introduced into commerce in the larger of—

(i) the Consolidated Metropolitan Statistical Area (as defined by the United States Office of Management and Budget) (CMSA) in which the area is located, or

(ii) if the area is not located in a CMSA, the Metropolitan Statistical Area (as defined by the United States Office of Management and Budget) in which the area is located,

be blended, during the portion of the year in which the area is prone to high ambient concentrations of carbon monoxide (as determined by the Administrator), with fuels containing such level of oxygen as is necessary, in combination with other measures, to provide for attainment of the carbon monoxide national ambient air quality standard by the applicable attainment date and maintenance of the national ambient air quality standard thereafter in the area. The revision shall provide that such requirement shall take effect no later than October 1, 1993, and shall include a program for implementation and enforcement of the requirement consistent with guidance to be issued by the Administrator.

(B) Notwithstanding subparagraph (A), the revision described in this paragraph shall not be required for an area if the State demonstrates to the satisfaction of the Administrator that the revision is not necessary to provide for attainment of the carbon monoxide national ambient air quality standard by the applicable attainment date and maintenance of the national ambient air quality standard thereafter in the area.

(c) AREAS WITH SIGNIFICANT STATIONARY SOURCE EMISSIONS OF CO.—

(1) **SERIOUS AREAS.**—In the case of Serious Areas in which stationary sources contribute significantly to carbon monoxide levels (as determined under rules issued by the Administrator), the State shall submit a plan revision within 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, which provides that the term “major stationary source” includes (in addition to the sources described in section 302) any stationary source which emits, or has the potential to emit, 50 tons per year or more of carbon monoxide.

(2) **WAIVER FOR CERTAIN AREAS.**—The Administrator may, on a case-by-case basis, waive any requirements that pertain to transportation controls, inspection and maintenance, or oxygenated fuels where the Administrator determines by rule that mobile sources of carbon monoxide do not contribute significantly to carbon monoxide levels in the area.

(3) **GUIDELINES.**—Within 6 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall issue guidelines for and rules determining whether stationary sources contribute significantly to carbon monoxide levels in an area.

(d) CO MILESTONE.—

(1) **MILESTONE DEMONSTRATION.**—By March 31, 1996, each State in which all or part of a Serious Area is located shall submit to the Administrator a demonstration that the area has achieved a reduction in emissions of CO equivalent to the total of the specific annual emission reductions required by December 31, 1995. Such reductions shall be referred to in this subsection as the milestone.

(2) ADEQUACY OF DEMONSTRATION.—A demonstration under this paragraph shall be submitted in such form and manner, and shall contain such information and analysis, as the Administrator shall require. The Administrator shall determine whether or not a State's demonstration is adequate within 90 days after the Administrator's receipt of a demonstration which contains the information and analysis required by the Administrator.

(3) FAILURE TO MEET EMISSION REDUCTION MILESTONE.—If a State fails to submit a demonstration under paragraph (1) within the required period, or if the Administrator notifies the State that the State has not met the milestone, the State shall, within 9 months after such a failure or notification, submit a plan revision to implement an economic incentive and transportation control program as described in section 182(g)(4). Such revision shall be sufficient to achieve the specific annual reductions in carbon monoxide emissions set forth in the plan by the attainment date.

(e) MULTI-STATE CO NONATTAINMENT AREAS.—

(1) COORDINATION AMONG STATES.—Each State in which there is located a portion of a single nonattainment area for carbon monoxide which covers more than one State ("multi-State nonattainment area") shall take all reasonable steps to coordinate, substantively and procedurally, the revisions and implementation of State implementation plans applicable to the nonattainment area concerned. The Administrator may not approve any revision of a State implementation plan submitted under this part for a State in which part of a multi-State nonattainment area is located if the plan revision for that State fails to comply with the requirements of this subsection.

(2) FAILURE TO DEMONSTRATE ATTAINMENT.—If any State in which there is located a portion of a multi-State nonattainment area fails to provide a demonstration of attainment of the national ambient air quality standard for carbon monoxide in that portion within the period required under this part the State may petition the Administrator to make a finding that the State would have been able to make such demonstration but for the failure of one or more other States in which other portions of the area are located to commit to the implementation of all measures required under section 187 (relating to plan submissions for carbon monoxide nonattainment areas). If the Administrator makes such finding, in the portion of the nonattainment area within the State submitting such petition, no sanction shall be imposed under section 179 or under any other provision of this Act, by reason of the failure to make such demonstration.

(f) RECLASSIFIED AREAS.—Each State containing a carbon monoxide nonattainment area reclassified under section 186(b)(2) shall meet the requirements of subsection (b) of this section, as may be applicable to the area as reclassified, according to the schedules prescribed in connection with such requirements, except that the Administrator may adjust any applicable dead-

lines (other than the attainment date) where such deadlines are shown to be infeasible.

(g) **FAILURE OF SERIOUS AREA TO ATTAIN STANDARD.**—If the Administrator determines under section 186(b)(2) that the national primary ambient air quality standard for carbon monoxide has not been attained in a Serious Area by the applicable attainment date, the State shall submit a plan revision for the area within 9 months after the date of such determination. The plan revision shall provide that a program of incentives and requirements as described in section 182(g)(4) shall be applicable in the area, and such program, in combination with other elements of the revised plan, shall be adequate to reduce the total tonnage of emissions of carbon monoxide in the area by at least 5 percent per year in each year after approval of the plan revision and before attainment of the national primary ambient air quality standard for carbon monoxide.

Subpart 4—Additional Provisionary for Particulate Matter Nonattainment Areas

[¶ 2188]

Sec. 188. CLASSIFICATIONS AND ATTAINMENT DATES.

(a) **INITIAL CLASSIFICATIONS.**—Every area designated nonattainment for PM-10 pursuant to section 107(d) shall be classified at the time of such designation, by operation of law, as a moderate PM-10 nonattainment area (also referred to in this subpart as a “Moderate Area”) at the time of such designation. At the time of publication of the notice under section 107(d)(4) (relating to area designations) for each PM-10 nonattainment area, the Administrator shall publish a notice announcing the classification of such area. The provisions of section 172(a)(1)(B) (relating to lack of notice-and-comment and judicial review) shall apply with respect to such classification.

(b) RECLASSIFICATION AS SERIOUS.—

(1) **RECLASSIFICATION BEFORE ATTAINMENT DATE.**—The Administrator may reclassify as a Serious PM-10 nonattainment area (identified in this subpart also as a “Serious Area”) any area that the Administrator determines cannot practicably attain the national ambient air quality standard for PM-10 by the attainment date (as prescribed in subsection (c)) for Moderate Areas. The Administrator shall reclassify appropriate areas as Serious by the following dates:

(A) For areas designated nonattainment for PM-10 under section 107(d)(4), the Administrator shall propose to reclassify appropriate areas by June 30, 1991, and take final action by December 31, 1991.

(B) For areas subsequently designated nonattainment, the Administrator shall reclassify appropriate areas within 18 months after the required date for the State’s submission of a SIP for the Moderate Area.

(2) RECLASSIFICATION UPON FAILURE TO ATTAIN.—Within 6 months following the applicable attainment date for a PM-10 nonattainment area, the Administrator shall determine whether the area attained the standard by that date. If the Administrator finds that any Moderate Area is not in attainment after the applicable attainment date—

(A) the area shall be reclassified by operation of law as a Serious Area; and

(B) the Administrator shall publish a notice in the Federal Register no later than 6 months following the attainment date, identifying the area as having failed to attain and identifying the reclassification described under subparagraph (A).

(c) ATTAINMENT DATES.—Except as provided under subsection (d), the attainment dates for PM-10 nonattainment areas shall be as follows:

(1) MODERATE AREAS.—For a Moderate Area, the attainment date shall be as expeditiously as practicable but no later than the end of the sixth calendar year after the area's designation as nonattainment, except that, for areas designated nonattainment for PM-10 under section 107(d)(4), the attainment date shall not extend beyond December 31, 1994.

(2) SERIOUS AREAS.—For a Serious Area, the attainment date shall be as expeditiously as practicable but no later than the end of the tenth calendar year beginning after the area's designation as nonattainment, except that, for areas designated nonattainment for PM-10 under section 107(d)(4), the date shall not extend beyond December 31, 2001.

(d) EXTENSION OF ATTAINMENT DATE FOR MODERATE AREAS.—Upon application by any State, the Administrator may extend for 1 additional year (hereinafter referred to as the "Extension Year") the date specified in paragraph (c)(1) if—

(1) the State has complied with all requirements and commitments pertaining to the area in the applicable implementation plan and

(2) no more than one exceedance of the 24-hour national ambient air quality standard level for PM-10 has occurred in the area in the year preceding the Extension Year, and the annual mean concentration of PM-10 in the area for such year is less than or equal to the standard level.

No more than 2 one-year extensions may be issued under the subsection for a single nonattainment area.

(e) EXTENSION OF ATTAINMENT DATE FOR SERIOUS AREAS.—Upon application by any State, the Administrator may extend the attainment date for a Serious Area beyond the date specified under subsection (c), if attainment by the date established under subsection (c) would be impracticable, the State has complied with all requirements and commitments pertaining to that area in the implementation plan, and the State demonstrates to the satisfaction of the Administrator that the plan for that area includes the most stringent measures that are included in the implementation plan of any State or are achieved in practice in any State, and can feasibly be implemented in the

area. At the time of such application, the State must submit a revision to the implementation plan that includes a demonstration of attainment by the most expeditious alternative date practicable. In determining whether to grant an extension, and the appropriate length of time for any such extension, the Administrator may consider the nature and extent of nonattainment, the types and numbers of sources or other emitting activities in the area (including the influence of uncontrollable natural sources and transboundary emissions from foreign countries), the population exposed to concentrations in excess of the standard, the presence and concentration of potentially toxic substances in the mix of particulate emissions in the area, and the technological and economic feasibility of various control measures. The Administrator may not approve an extension until the State submits an attainment demonstration for the area. The Administrator may grant at most one such extension for an area, of no more than 5 years.

(f) **WAIVERS FOR CERTAIN AREAS.**—The Administrator may, on a case-by-case basis, waive any requirement applicable to any Serious Area under this subpart where the Administrator determines that anthropogenic sources of PM-10 do not contribute significantly to the violation of the PM-10 standard in the area. The Administrator may also waive a specific date for attainment of the standard where the Administrator determines that nonanthropogenic sources of PM-10 contribute significantly to the violation of the PM-10 standard in the area.

[¶ 2189]

Sec. 189. PLAN PROVISIONS AND SCHEDULES FOR PLAN SUBMISSIONS.

(a) MODERATE AREAS.—

(1) **PLAN PROVISIONS.**—Each State in which all or part of a Moderate Area is located shall submit, according to the applicable schedule under paragraph (2), an implementation plan that includes each of the following:

(A) For the purpose of meeting the requirements of section 172(c)(5), a permit program providing that permits meeting the requirements of section 173 are required for the construction and operation of new and modified major stationary sources of PM-10.

(B) Either (i) a demonstration (including air quality modeling) that the plan will provide for attainment by the applicable attainment date; or (ii) a demonstration that attainment by such date is impracticable.

(C) Provisions to assure that reasonably available control measures for the control of PM-10 shall be implemented no later than December 10, 1993, or 4 years after designation in the case of an area classified as moderate after the date of the enactment of the Clean Air Act Amendments of 1990.

(2) **SCHEDULE FOR PLAN SUBMISSIONS.**—A State shall submit the plan required under subparagraph (1) no later than the following:

(A) Within 1 year of the date of the enactment of the Clean Air Act Amendments of 1990, for areas designated nonattainment under section 107(d)(4), except that the provision required under subparagraph (1)(A) shall be submitted no later than June 30, 1992.

(B) 18 months after the designation as nonattainment, for those areas designated nonattainment after the designations prescribed under section 107(d)(4).

(b) **SERIOUS AREAS.**—

(1) **PLAN PROVISIONS.**—In addition to the provisions submitted to meet the requirements of paragraph (a)(1) (relating to Moderate Areas), each State in which all or part of a Serious Area is located shall submit an implementation plan for such area that includes each of the following:

(A) A demonstration (including air quality modeling)—

(i) that the plan provides for attainment of the PM-10 national ambient air quality standard by the applicable attainment date, or

(ii) for any area for which the State is seeking, pursuant to section 188(e), an extension of the attainment date beyond the date set forth in section 188(c), that attainment by that date would be impracticable, and that the plan provides for attainment by the most expeditious alternative date practicable.

(B) Provisions to assure that the best available control measures for the control of PM-10 shall be implemented no later than 4 years after the date the area is classified (or reclassified) as a Serious Area.

(2) **SCHEDULE FOR PLAN SUBMISSIONS.**—A State shall submit the demonstration required for an area under paragraph (1)(A) no later than 4 years after reclassification of the area to Serious, except that for areas reclassified under section 188(b)(2), the State shall submit the attainment demonstration within 18 months after reclassification to Serious. A State shall submit the provisions described under paragraph (1)(B) no later than 18 months after reclassification of the area as a Serious Area.

(3) **MAJOR SOURCES.**—For any Serious Area, the terms “major source” and “major stationary source” include any stationary source or group of stationary sources located within a contiguous area and under common control that emits, or has the potential to emit, at least 70 tons per year of PM-10.

(c) **MILESTONES.**—(1) Plan revisions demonstrating attainment submitted to the Administrator for approval under this subpart shall contain quantitative milestones which are to be achieved every 3 years until the area is redesignated attainment and which demonstrate reasonable further progress, as defined in section 171(1), toward attainment by the applicable date.

(2) Not later than 90 days after the date on which a milestone applicable to the area occurs, each State in which all or part of such area is located shall submit to the Administrator a demonstration that all

measures in the plan approved under this section have been implemented and that the milestone has been met. A demonstration under this subsection shall be submitted in such form and manner, and shall contain such information and analysis, as the Administrator shall require. The Administrator shall determine whether or not a State's demonstration under this subsection is adequate within 90 days after the Administrator's receipt of a demonstration which contains the information and analysis required by the Administrator.

(3) If a State fails to submit a demonstration under paragraph (2) with respect to a milestone within the required period or if the Administrator determines that the area has not met any applicable milestone, the Administrator shall require the State, within 9 months after such failure or determination to submit a plan revision that assures that the State will achieve the next milestone (or attain the national ambient air quality standard for PM-10, if there is no next milestone) by the applicable date.

(d) FAILURE TO ATTAIN.—In the case of a Serious PM-10 nonattainment area in which the PM-10 standard is not attained by the applicable attainment date, the State in which such area is located shall, after notice and opportunity for public comment, submit within 12 months after the applicable attainment date, plan revisions which provide for attainment of the PM-10 air quality standard and, from the date of such submission until attainment, for an annual reduction in PM-10 or PM-10 precursor emissions within the area of not less than 5 percent of the amount of such emissions as reported in the most recent inventory prepared for such area.

(e) PM-10 PRECURSORS.—The control requirements applicable under plans in effect under this part for major stationary sources of PM-10 shall also apply to major stationary sources of PM-10 precursors, except where the Administrator determines that such sources do not contribute significantly to PM-10 levels which exceed the standard in the area. The Administrator shall issue guidelines regarding the application of the preceding sentence.

[¶ 2190]

Sec. 190. ISSUANCE OF RACM AND BACM GUIDANCE.

The Administrator shall issue, in the same manner and according to the same procedure as guidance is issued under section 108(c), technical guidance on reasonably available control measures and best available control measures for urban fugitive dust, and emissions from residential wood combustion (including curtailments and exemptions from such curtailments) and prescribed silvicultural and agricultural burning, no later than 18 months following the date of the enactment of the Clean Air Act Amendments of 1990. The Administrator shall also examine other categories of sources contributing to nonattainment of the PM-10 standard, and determine whether additional guidance on reasonably available control measures and best available control measures is needed, and issue any such guidance no later than 3 years after the date of the enactment of the Clean Air Act Amendments of 1990. In issuing guidelines and making determinations under this section, the Administrator (in consultation with the State) shall take into account emission reduc-

tions achieved, or expected to be achieved, under title IV and other provisions of this Act.

Subpart 5—Additional Provisions for Areas Designated Nonattainment for Sulfur Oxides

[¶ 2191]

Sec. 191. PLAN SUBMISSION DEADLINES.

(a) **SUBMISSION.**—Any State containing an area designated or redesignated under section 107(d) as nonattainment with respect to the national primary ambient air quality standards for sulfur oxides, nitrogen dioxide, or lead subsequent to the date of the enactment of the Clean Air Act Amendments of 1990 shall submit to the Administrator, within 18 months of the designation, an applicable implementation plan meeting the requirements of this part.

(b) **STATES LACKING FULLY APPROVED STATE IMPLEMENTATION PLANS.**—Any State containing an area designated nonattainment with respect to national primary ambient air quality standards for sulfur oxides or nitrogen dioxide under section 107(d)(1)(C)(i), but lacking a fully approved implementation plan complying with the requirements of this Act (including part D) as in effect immediately before the date of the enactment of the Clean Air Act Amendments of 1990, shall submit to the Administrator, within 18 months of the date of the enactment of the Clean Air Act Amendments of 1990, an implementation plan meeting the requirements of subpart 1 (except as otherwise prescribed by section 192).

[¶ 2192]

Sec. 192. ATTAINMENT DATES.

(a) **PLANS UNDER SECTION 191(a).**—Implementation plans required under section 191(a) shall provide for attainment of the relevant primary standard as expeditiously as practicable but no later than 5 years from the date of the nonattainment designation.

(b) **PLANS UNDER SECTION 191(b).**—Implementation plans required under section 191(b) shall provide for attainment of the relevant primary national ambient air quality standard within 5 years after the date of the enactment of the Clean Air Act Amendments of 1990.

(c) **INADEQUATE PLANS.**—Implementation plans for nonattainment areas for sulfur oxides or nitrogen dioxide with plans that were approved by the Administrator before the date of the enactment of the Clean Air Act Amendments of 1990 but, subsequent to such approval, were found by the Administrator to be substantially inadequate, shall provide for attainment of the relevant primary standard within 5 years from the date of such finding.

Subpart 6—Savings Provisions

[¶ 2193]

Sec. 193. GENERAL SAVINGS CLAUSE.

Each regulation, standard, rule, notice, order and guidance promulgated or issued by the Administrator under this Act, as in effect before the date of the enactment of the Clean Air Act Amendments of 1990 shall remain in effect according to its terms, except to the extent otherwise provided under this Act, inconsistent with any provision of this Act, or revised by the Administrator. No control requirement in effect, or required to be adopted by an order, settlement agreement, or plan in effect before the date of the enactment of the Clean Air Act Amendments of 1990 in any area which is a nonattainment area for any air pollutant may be modified after such enactment in any manner unless the modification insures equivalent or greater emission reductions of such air pollutant.

TITLE II—National Emission Standards Act

[¶ 2201]

Sec. 201. SHORT TITLE

This title may be cited as the "National Emission Standards Act."

PART A—MOTOR VEHICLE EMISSION STANDARDS

[¶ 2202]

Sec. 202. ESTABLISHMENT OF STANDARDS

(a) Except as otherwise provided in subsection (b)—

(1) The Administrator shall by regulation prescribe (and from time to time revise) in accordance with the provisions of this section, standards applicable to the emission of any air pollutant from any class or classes of new motor vehicles or new motor vehicle engines, which in his judgment cause, or contribute to, air pollution which may reasonably be anticipated to endanger public health or welfare. Such standards shall be applicable to such vehicles and engines for their useful life (as determined under subsection (d), relating to useful life of vehicles for purposes of certification), whether such vehicles and engines are designed as complete systems or incorporate devices to prevent or control such pollution.

(2) Any regulation prescribed under paragraph (1) of this subsection (and any revision thereof) shall take effect after such period as the Administrator finds necessary to permit the development and application of the requisite technology, giving appropriate consideration to the cost of compliance within such period.

(3)(A) IN GENERAL.—(i) Unless the standard is changed as provided in subparagraph (B), regulations under paragraph (1) of this subsection applicable to emissions of hydrocarbons, carbon monoxide, oxides of nitrogen, and particulate matter from classes or categories of heavy-duty vehicles or engines manufactured during or after model year 1983 shall contain standards which reflect the greatest degree of emission reduction achievable through the application of technology which the Administrator determines will be available for the model year to which such standards apply, giving appropriate consideration to cost, energy, and safety factors associated with the application of such technology.

(ii) In establishing classes or categories of vehicles or engines for purposes of regulations under this paragraph, the Administrator may base such classes or categories on gross vehicle weight, horsepower, type of fuel used, or other appropriate factors.

(B) REVISED STANDARDS FOR HEAVY-DUTY TRUCKS.—(i) On the basis of information available to the Administrator concerning the effects of air pollutants emitted from heavy-duty vehicles or engines

and from other sources of mobile source related pollutants on the public health and welfare, and taking costs into account, the Administrator may promulgate regulations under paragraph (1) of this subsection revising any standard promulgated under, or before the date of, the enactment of the Clean Air Act Amendments of 1990 (or previously revised under this subparagraph) and applicable to classes or categories of heavy-duty vehicles or engines.

(ii) Effective for the model year 1998 and thereafter, the regulations under paragraph (1) of this subsection applicable to emissions of oxides of nitrogen (NO_x) from gasoline and diesel-fueled heavy duty trucks shall contain standards which provide that such emissions may not exceed 4.0 grams per brake horsepower hour (gbh).

(C) **LEAD TIME AND STABILITY.**—Any standard promulgated or revised under this paragraph and applicable to classes or categories of heavy-duty vehicles or engines shall apply for a period of no less than 3 model years beginning no earlier than the model year commencing 4 years after such revised standard is promulgated.

(D) **REBUILDING PRACTICES.**—The Administrator shall study the practice of rebuilding heavy-duty engines and the impact rebuilding has on engine emissions. On the basis of that study and other information available to the Administrator, the Administrator may prescribe requirements to control rebuilding practices, including standards applicable to emissions from any rebuilt heavy-duty engines (whether or not the engine is past its statutory useful life), which in the Administrator's judgment cause, or contribute to, air pollution which may reasonably be anticipated to endanger public health or welfare taking costs into account. Any regulation shall take effect after a period the Administrator finds necessary to permit the development and application of the requisite control measures, giving appropriate consideration to the cost of compliance within the period and energy and safety factors.

(E) **MOTORCYCLES.**—For purposes of this paragraph, motorcycles and motorcycle engines shall be treated in the same manner as heavy-duty vehicles and engines (except as otherwise permitted under section 206(f)(1)) unless the Administrator promulgates a rule reclassifying motorcycles as light-duty vehicles within the meaning of this section or unless the Administrator promulgates regulations under subsection (a) applying standards applicable to the emission of air pollutants from motorcycles as a separate class or category. In any case in which such standards are promulgated for such emissions from motorcycles as a separate class or category, the Administrator, in promulgating such standards, shall consider the need to achieve equivalency of emission reductions between motorcycles and other motor vehicles to the maximum extent practicable.

(4)(A) Effective with respect to vehicles and engines manufactured after model year 1978, no emission control device, system, or element of design shall be used in a new motor vehicle or new motor vehicle engine for purposes of complying with requirements prescribed under this title if such device, system, or element of design will cause or contribute to an unreasonable risk to public health, welfare, or safety in its operation or function.

(B) In determining whether an unreasonable risk exists under subparagraph (A), the Administrator shall consider, among other factors, (i) whether and to what extent the use of any device, system, or element of design causes, increases, reduces, or eliminates emissions of any unregulated pollutants; (ii) available methods for reducing or eliminating any risk to public health, welfare, or safety which may be associated with the use of such device, system, or element of design, and (iii) the availability of other devices, systems, or elements of design which may be used to conform to requirements prescribed under this title without causing or contributing to such unreasonable risk. The Administrator shall include in the consideration required by this paragraph all relevant information developed pursuant to section 214.

(5)(A) If the Administrator promulgates final regulations which define the degree of control required and the test procedures by which compliance could be determined for gasoline vapor recovery of uncontrolled emissions from the fueling of motor vehicles, the Administrator shall, after consultation with the Secretary of Transportation with respect to motor vehicle safety, prescribe, by regulation, fill pipe standards for new motor vehicles in order to insure effective connection between such fill pipe and any vapor recovery system which the Administrator determines may be required to comply with such vapor recovery regulations. In promulgating such standards the Administrator shall take into consideration limits on fill pipe diameter, minimum design criteria for nozzle retainer lips, limits on the location of the unleaded fuel restrictors, a minimum access zone surrounding a fill pipe, a minimum pipe or nozzle insertion angle, and such other factors as he deems pertinent.

(B) Regulations prescribing standards under subparagraph (A) shall not become effective until the introduction of the model year for which it would be feasible to implement such standards, taking into consideration the restraints of an adequate leadtime for design production.

(C) Nothing in subparagraph (A) shall (i) prevent the Administrator from specifying different nozzle and fill neck sizes for gasoline with additives and gasoline without additives or (ii) permit the Administrator to require a specific location, configuration, modeling, or styling of the motor vehicle body with respect to the fuel tank fill neck or fill nozzle clearance envelope.

(D) For the purpose of this paragraph, the term "fill pipe" shall include the fuel tank fill pipe, fill neck, fill inlet, and closure.

(6) **ONBOARD VAPOR RECOVERY.**—Within 1 year after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall, after consultation with the Secretary of Transportation regarding the safety of vehicle-based (“onboard”) systems for the control of vehicle refueling emissions, promulgate standards under this section requiring that new light-duty vehicles manufactured beginning in the fourth model year after the model year in which the standards are promulgated and thereafter shall be equipped with such systems. The standards required under this paragraph shall apply to a percentage of each manufacturer's fleet of new light-duty vehicles beginning with the fourth model year after the model year in which the standards are promulgated. The percentage shall be as specified in the following table:

**IMPLEMENTATION SCHEDULE FOR ONBOARD
VAPOR RECOVERY REQUIREMENTS**

<i>Model year commencing after standards promulgated</i>	<i>Percentage *</i>
Fourth	40
Fifth	80
After fifth	100

* Percentages in the table refer to a percentage of the manufacturer's sales volume.

The standards shall require that such systems provide a minimum evaporative emission capture efficiency of 95 percent. The requirements of section 182(b)(3) (relating to stage II gasoline vapor recovery) for areas classified under section 181 as moderate for ozone shall not apply after promulgation of such standards and the Administrator may, by rule, revise or waive the application of the requirements of such section 182(b)(3) for areas classified under section 181 as Serious, Severe, or Extreme for ozone as appropriate, after such time as the Administrator determines that onboard emissions control systems required under this paragraph are in widespread use throughout the motor vehicle fleet.

(b)(1)(A) The regulations under subsection (a) applicable to emissions of carbon monoxide and hydrocarbons from light-duty vehicles and engines manufactured during model years 1977 through 1979 shall contain standards which provide that such emissions from such vehicles and engines may not exceed 1.5 grams per vehicle mile of hydrocarbons and 15.0 grams per vehicle mile of carbon monoxide. The regulations under subsection (a) applicable to emissions of carbon monoxide from light-duty vehicles and engines manufactured during the model year 1980 shall contain standards which provide that such emissions may not exceed 7.0 grams per vehicle mile. The regulations under subsection (a) applicable to emissions of hydrocarbons from light-duty vehicles and engines manufactured during or after model year 1980 shall contain standards which require a reduction of at least 90 percent from emissions of such pollutant allowable under the standards under this section applicable to light-duty vehicles and engines manufactured in model year 1970. Unless waived as provided in paragraph (5), regulations under subsection (a) applicable to emissions of carbon monoxide from light-duty vehicles and engines manufactured during or after the model year 1981 shall contain

standards which require a reduction of at least 90 percent from emissions of such pollutant allowable under the standards under this section applicable to light-duty vehicles and engines manufactured in model year 1970.

(B) The regulations under subsection (a) applicable to emissions of oxides of nitrogen from light-duty vehicles and engines manufactured during model years 1977 through 1980 shall contain standards which provide that such emissions from such vehicles and engines may not exceed 2.0 grams per vehicle mile. The regulations under subsection (a) applicable to emissions of oxides of nitrogen from light-duty vehicles and engines manufactured during the model year 1981 and thereafter shall contain standards which provide that such emissions from such vehicles and engines may not exceed 1.0 gram per vehicle mile. The Administrator shall prescribe standards in lieu of those required by the preceding sentence, which provide that emissions of oxides of nitrogen may not exceed 2.0 grams per vehicle mile for any light-duty vehicle manufactured during model years 1981 and 1982 by any manufacturer whose production, by corporate identity, for calendar year 1976 was less than three hundred thousand light-duty motor vehicles worldwide if the Administrator determines that—

(i) the ability of such manufacturer to meet emission standards in the 1975 and subsequent model years was, and is, primarily dependent upon technology developed by other manufacturers and purchased from such manufacturers; and

(ii) such manufacturer lacks the financial resources and technological ability to develop such technology.

(C) The Administrator may promulgate regulations under subsection (a)(1) revising any standard prescribed or previously revised under this subsection, as needed to protect public health or welfare, taking costs, energy, and safety into account. Any revised standard shall require a reduction of emissions from the standard that was previously applicable. Any such revision under this title may provide for a phase-in of the standard. It is the intent of Congress that the numerical emission standards specified in subsections (a)(3)(B)(ii), (g), (h), and (i) shall not be modified by the Administrator after the enactment of the Clean Air Act Amendments of 1990 for any model year before the model year 2004.

(2) Emission standards under paragraph (1), and measurement techniques on which such standards are based (if not promulgated prior to the date of the enactment of the Clean Air Act Amendments of 1990), shall be promulgated by regulation within 180 days after such date.

(3) For purposes of this part—

(A)(i) The term “model year” with reference to any specific calendar year means the manufacturer’s annual production period (as determined by the Administrator) which includes January 1 of

such calendar year. If the manufacturer has no annual production period, the term "model year" shall mean the calendar year.

(ii) For the purpose of assuring that vehicles and engines manufactured before the beginning of a model year were not manufactured for purposes of circumventing the effective date of a standard required to be prescribed by subsection (b), the Administrator may prescribe regulations defining "model year" otherwise than as provided in clause (i).

[CCH Note: (B) deleted by P.L. 101-549.]

(C) The term "heavy duty vehicle" means a truck, bus, or other vehicle manufactured primarily for use on the public streets, roads, and highways (not including any vehicle operated exclusively on a rail or rails) which has a gross vehicle weight (as determined under regulations promulgated by the Administrator) in excess of six thousand pounds. Such term includes any such vehicle which has special features enabling off-street or off-highway operation and use.

[4] (3) Upon the petition of any manufacturer, the Administrator, after notice and opportunity for public hearing, may waive the standard required under subparagraph (B) of paragraph (1) to not exceed 1.5 grams of oxides of nitrogen per vehicle mile for any class or category of light-duty vehicles or engines manufactured by such manufacturer during any period of up to four model years beginning after the model year 1980 if the manufacturer demonstrates that such waiver is necessary to permit the use of an innovative power train technology, or innovative emission control device or system, in such class or category of vehicles or engines and that such technology or system was not utilized by more than 1 percent of the light-duty vehicles sold in the United States in the 1975 model year. Such waiver may be granted only if the Administrator determines—

(A) that such waiver would not endanger public health,

(B) that there is a substantial likelihood that the vehicles or engines will be able to comply with the applicable standard under this section at the expiration of the waiver, and

(C) that the technology or system has a potential for long-term air quality benefit and has the potential to meet or exceed the average fuel economy standard applicable under the Energy Policy and Conservation Act upon the expiration of the waiver.

No waiver under this subparagraph granted to any manufacturer shall apply to more than 5 percent of such manufacturer's production or more than fifty thousand vehicles or engines, whichever is greater.

(c)(1) The Administrator shall undertake to enter into appropriate arrangements with the National Academy of Sciences to conduct a comprehensive study and investigation of the technological feasibility of meeting the

emissions standards required to be prescribed by the Administrator by subsection (b) of this section.

(2) Of the funds authorized to be appropriated to the Administrator by this Act, such amounts as are required shall be available to carry out the study and investigation authorized by paragraph (1) of this subsection.

(3) In entering into any arrangement with the National Academy of Sciences for conducting the study and investigation authorized by paragraph (1) of this subsection, the Administrator shall request the National Academy of Sciences to submit semiannual reports on the progress of its study and investigation to the Administrator and the Congress, beginning not later than July 1, 1971, and continuing until such study and investigation is completed.

(4) The Administrator shall furnish to such Academy at its request any information which the Academy deems necessary for the purpose of conducting the investigation and study authorized by paragraph (1) of this subsection. For the purpose of furnishing such information, the Administrator may use any authority he has under this Act (A) to obtain information from any persons, and (B) to require such person to conduct such tests, keep such records, and make such reports respecting research or other activities conducted by such person as may be reasonably necessary to carry out this subsection.

(d) The Administrator shall prescribe regulations under which the useful life of vehicles and engines shall be determined for purposes of subsection (a)(1) of this section and section 207. Such regulations shall provide that except where a different useful life period is specified in this title useful life shall—

(1) in the case of light duty vehicles and light duty vehicle engines and light duty trucks up to 3,750 lbs LVW and up to 6,000 lbs GVWR, be a period of use of five years or of fifty thousand miles (or the equivalent), whichever first occurs except that in the case of any requirement of this section which first becomes applicable after the enactment of the Clean Air Act Amendments of 1990 where the useful life period is not otherwise specified for such vehicles and engines, the period shall be 10 years or 100,000 miles (or the equivalent), whichever first occurs, with testing for purposes of in-use compliance under section 207 up to (but not beyond) 7 years or 75,000 miles (or the equivalent), whichever first occurs;

(2) in the case of any other motor vehicle or motor vehicle engine, be a period of use set forth in paragraph (1) unless the Administrator determines that a period of use of greater duration or mileage is appropriate;

(3) in the case of any motorcycle or motorcycle engine, be a period of use the Administrator shall determine.

(e) In the event a new power source or propulsion system for new motor vehicles or new motor vehicle engines (other than motorcycles or motorcycle

engines) is submitted for certification pursuant to section 206(a), the Administrator may postpone certification until he has prescribed standards for any air pollutants emitted by such vehicle or engine which in his judgment cause, or contributes to, air pollution which may reasonably be anticipated to endanger the public health or welfare but for which standards have not been prescribed under subsection (a).

(f)(1) The high altitude regulation in effect with respect to model year 1977 motor vehicles shall not apply to the manufacture, distribution, or sale of 1978 and later model year motor vehicles. Any future regulation affecting the sale or distribution of motor vehicles or engines manufactured before the model year 1984 in high altitude areas of the country shall take effect no earlier than model year 1981.

(2) Any such future regulation applicable to high altitude vehicles or engines shall not require a percentage of reduction in the emissions of altitude emissions from vehicles manufactured during model year 1970. In no event shall regulations applicable to high altitude vehicles manufactured before the model year 1984 establish a numerical standard which is more stringent than that applicable to vehicles certified under non-high altitude conditions.

(3) Section 307(d) shall apply to any high altitude regulation referred to in paragraph (2) and before promulgating any such regulation, the Administrator shall consider and make a finding with respect to—

(A) the economic impact upon consumers, individual high altitude dealers, and the automobile industry of any such regulation, including the economic impact which was experienced as a result of the regulation imposed during model year 1977 with respect to high altitude certification requirements;

(B) the present and future availability of emission control technology capable of meeting the applicable vehicle and engine emission requirements without reducing model availability; and

(C) the likelihood that the adoption of such a high altitude regulation will result in any significant improvement in air quality in any area to which it shall apply.

(g) LIGHT-DUTY TRUCKS UP TO 6,000 LBS. GVWR AND LIGHT-DUTY VEHICLES; STANDARDS FOR MODEL YEARS AFTER 1993.—

(1) NMHC, CO, AND NO_x.—Effective with respect to the model year 1994 and thereafter, the regulations under subsection (a) applicable to emissions of nonmethane hydrocarbons (NMHC), carbon monoxide (CO), and oxides of nitrogen (NO_x) from light-duty trucks (LDTs) of up to 6,000 lbs. gross vehicle weight rating (GVWR) and light-duty vehicles (LDVs) shall contain standards which provide that emissions from a percentage of each manufacturer's sales volume of such vehicles and trucks shall comply with the levels specified in table G. The percentage shall be as specified in the implementation schedule below:

TABLE G.—EMISSION STANDARDS FOR NMHC, CO, AND NO_x FROM LIGHT-DUTY TRUCKS OF UP TO 6,000 LBS. GVWR AND LIGHT-DUTY VEHICLES

Vehicle type	Column A (5 yrs/50,000 mi)			Column B (10 yrs/100,000 mi)		
	NMHC	CO	NO _x	NMHC	CO	NO _x
LDTs (0-3,750 lbs. LVW) and light-duty vehicles	0.25	3.4	0.4*	0.31	4.2	0.6*
LDTs (3,751-5,750 lbs. LVW)	.32	4.4	0.7**	0.40	5.5	0.97

Standards are expressed in grams per mile (gpm).

For standards under column A, for purposes of certification under section 206, the applicable useful life shall be 5 years or 50,000 miles (or the equivalent), whichever first occurs.

For standards under column B, for purposes of certification under section 206, the applicable useful life shall be 10 years or 100,000 miles (or the equivalent), whichever first occurs.

* In the case of diesel-fueled LDTs (0-3,750 lvw) and light-duty vehicles, before the model year 2004, in lieu of the 0.4 and 0.6 standards for NO_x, the applicable standards for NO_x shall be 1.0 gpm for a useful life of 5 years or 50,000 miles (or the equivalent), whichever first occurs, and 1.25 gpm for a useful life of 10 years or 100,000 miles (or the equivalent) whichever first occurs.

** This standard does not apply to diesel-fueled LDTs (3,751-5,750 lbs. LVW)

IMPLEMENTATION SCHEDULE FOR TABLE G STANDARDS

Model Year	Percentage *
1994	40
1995	80
After 1995	100

* Percentages in the table refer to a percentage of the manufacturer's sales volume.

(2) PM STANDARD.—Effective with respect to model year 1994 and thereafter in the case of light-duty vehicles and effective with respect to the model year 1995 and thereafter in the case of light-duty trucks (LDTs) of up to 6,000 lbs. gross vehicle weight rating (GVWR), the regulations under subsection (a) applicable to emissions of particulate matter (PM) from such vehicles and trucks shall contain standards which provide that such emissions from a percentage of each manufacturer's sales volume of such vehicles and trucks shall not exceed the levels specified in the table below. The percentage shall be as specified in the Implementation Schedule below.

PM STANDARD FOR LDTs OF UP TO 6,000 LBS. GVWR

Useful life period	Standard
5/50,000	0.08 gpm
10/100,000	0.10 gpm

The applicable useful life, for purposes of certification under section 206 and for purposes of in-use compliance under section 207, shall be 5 years or 50,000 miles (or the equivalent), whichever first occurs, in the case of the 5/50,000 standard.

The applicable useful life, for purposes of certification under section 206 and for purposes of in-use compliance under section 207, shall be 10 years or 100,000 miles (or the equivalent), whichever first occurs in the case of the 10/100,000 standard.

IMPLEMENTATION SCHEDULE FOR PM STANDARDS

<i>Model year</i>	<i>Light-duty vehicles</i>	<i>LDTs</i>
1994	40%*	
1995	80%*	40%*
1996	100%*	80%*
after 1996	100%*	100%*

* Percentages in the table refer to a percentage of each manufacturer's sales volume.

(h) **LIGHT-DUTY TRUCKS OF MORE THAN 6,000 LBS. GVWR; STANDARDS FOR MODEL YEARS AFTER 1995.**—Effective with respect to the model year 1996 and thereafter, the regulations under subsection (a) applicable to emissions of nonmethane hydrocarbons (NMHC), carbon monoxide (CO), oxides of nitrogen (NO_x), and particulate matter (PM) from light-duty trucks (LDTs) of more than 6,000 lbs. gross vehicle weight rating (GVWR) shall contain standards which provide that emissions from a specified percentage of each manufacturer's sales volume of such trucks shall comply with the levels specified in table H. The specified percentage shall be 50 percent in model year 1996 and 100 percent thereafter.

TABLE H.—EMISSION STANDARDS FOR NMHC AND CO FROM GASOLINE AND DIESEL FUELED LIGHT-DUTY TRUCKS OF MORE THAN 6,000 LBS. GVWR

<i>LDT Test weight</i>	<i>Column A (5 yrs/50,000 mi)</i>			<i>Column B (11 yrs/120,000 mi)</i>			
	<i>NMHC</i>	<i>CO</i>	<i>NO_x</i>	<i>NMHC</i>	<i>CO</i>	<i>NO_x</i>	<i>PM</i>
3,751-5,750 lbs. TW. . . .	0.32	4.4	0.7*	0.46	6.4	0.98	0.10
Over 5,750 lbs. TW. . . .	0.39	5.0	1.1*	0.56	7.3	1.53	0.12

Standards are expressed in grams per mile (GPM).

For standards under column A, for purposes of certification under section 206, the applicable useful life shall be 5 years or 50,000 miles (or the equivalent) whichever first occurs.

For standards under column B, for purposes of certification under section 206, the applicable useful life shall be 11 years or 120,000 miles (or the equivalent), whichever first occurs.

* Not applicable to diesel-fueled LDTs.

(i) **PHASE II STUDY FOR CERTAIN LIGHT-DUTY VEHICLES AND LIGHT-DUTY TRUCKS.**—(1) The Administrator, with the participation of the Office of Technology Assessment, shall study whether or not further reductions in emissions from light-duty vehicles and light-duty trucks should be required pursuant to this title. The study shall consider whether to establish with respect to model years commencing after January 1, 2003, the standards and useful life period for gasoline and diesel-fueled light-duty vehicles and light-

duty trucks with a loaded vehicle weight (LVW) of 3,750 lbs. or less specified in the following table:

TABLE 3—PENDING EMISSION STANDARDS FOR GASOLINE AND DIESEL FUELED LIGHT-DUTY VEHICLES AND LIGHT-DUTY TRUCKS 3,750 LBS. LVW OR LESS

<i>Pollutant</i>	<i>Emission level¹</i>
NMHC	0.125 gpm
NO _x	0.2 gpm
CO	1.7 gpm

¹ Emission levels are expressed in grams per mile (gpm). For vehicles and engines subject to this subsection for purposes of section 202(d) and any reference thereto, the useful life of such vehicles and engines shall be a period of 10 years or 100,000 miles (or the equivalent), whichever first occurs.

Such study shall also consider other standards and useful life periods which are more stringent or less stringent than those set forth in table 3 (but more stringent than those referred to in subsections (g) and (h)).

(2)(A) As part of the study under paragraph (1), the Administrator shall examine the need for further reductions in emissions in order to attain or maintain the national ambient air quality standards, taking into consideration the waiver provisions of section 209(b). As part of such study, the Administrator shall also examine—

(i) the availability of technology (including the costs thereof), in the case of light-duty vehicles and light-duty trucks with a loaded vehicle weight (LVW) of 3,750 lbs. or less, for meeting more stringent emission standards than those provided in subsections (g) and (h) for model years commencing not earlier than after January 1, 2003, and not later than model year 2006, including the lead time and safety and energy impacts of meeting more stringent emission standards; and

(ii) the need for, and cost effectiveness of, obtaining further reductions in emissions from such light-duty vehicles and light-duty trucks, taking into consideration alternative means of attaining or maintaining the national primary ambient air quality standards pursuant to State implementation plans and other requirements of this Act, including their feasibility and cost effectiveness.

(B) The Administrator shall submit a report to Congress no later than June 1, 1997, containing the results of the study under this subsection, including the results of the examination conducted under subparagraph (A). Before submittal of such report the Administrator shall provide a reasonable opportunity for public comment and shall include a summary of such comments in the report to Congress.

(3)(A) Based on the study under paragraph (1) the Administrator shall determine, by rule, within 3 calendar years after the report is submitted to Congress, but not later than December 31, 1999, whether—

(i) there is a need for further reductions in emissions as provided in paragraph (2)(A);

(ii) the technology for meeting more stringent emission standards will be available, as provided in paragraph (2)(A)(i), in the case of light-duty vehicles and light-duty trucks with a loaded vehicle weight (LVW) of 3,750 lbs. or less, for model years commencing not earlier than January 1, 2003, and not later than model year 2006, considering the factors listed in paragraph (2)(A)(i); and

(iii) obtaining further reductions in emissions from such vehicles will be needed and cost effective, taking into consideration alternatives as provided in paragraph (2)(A)(ii).

The rulemaking under this paragraph shall commence within 3 months after submission of the report to Congress under paragraph (2)(B).

(B) If the Administrator determines under subparagraph (A) that—

(i) there is no need for further reductions in emissions as provided in paragraph (2)(A);

(ii) the technology for meeting more stringent emission standards will not be available as provided in paragraph (2)(A)(i), in the case of light-duty vehicles and light-duty trucks with a loaded vehicle weight (LVW) of 3,750 lbs. or less, for model years commencing not earlier than January 1, 2003, and not later than model year 2006, considering the factors listed in paragraph (2)(A)(i); or

(iii) obtaining further reductions in emissions from such vehicles will not be needed or cost effective, taking into consideration alternatives as provided in paragraph (2)(A)(ii),

the Administrator shall not promulgate more stringent standards than those in effect pursuant to subsections (g) and (h). Nothing in this paragraph shall prohibit the Administrator from exercising the Administrator's authority under subsection (a) to promulgate more stringent standards for light-duty vehicles and light-duty trucks with a loaded vehicle weight (LVW) of 3,750 lbs. or less at any other time thereafter in accordance with subsection (a).

(C) If the Administrator determines under subparagraph (A) that—

(i) there is a need for further reductions in emissions as provided in paragraph (2)(A);

(ii) the technology for meeting more stringent emission standards will be available, as provided in paragraph (2)(A)(i), in the case of light-duty vehicles and light-duty trucks with a loaded vehicle weight (LVW) of 3,750 lbs. or less, for model years commencing not earlier than January 1, 2003, and not later than model year 2006, considering the factors listed in paragraph (2)(A)(i); and

(iii) obtaining further reductions in emissions from such vehicles will be needed and cost effective, taking into consideration alternatives as provided in paragraph (2)(A)(ii),

the Administrator shall either promulgate the standards (and useful life periods) set forth in Table 3 in paragraph (1) or promulgate alternative standards (and useful life periods) which are more stringent than those referred to in subsections (g) and (h). Any such standards (or useful life periods) promulgated by the Administrator shall take effect with respect to any such vehicles or engines no earlier than the model year 2003 but not later than model year 2006, as determined by the Administrator in the rule.

(D) Nothing in this paragraph shall be construed by the Administrator or by a court as a presumption that any standards (or useful life period) set forth in Table 3 shall be promulgated in the rulemaking required under this paragraph. The action required of the Administrator in accordance with this paragraph shall be treated as a nondiscretionary duty for purposes of section 304(a)(2) (relating to citizen suits).

(E) Unless the Administrator determines not to promulgate more stringent standards as provided in subparagraph (B) or to postpone the effective date of standards referred to in Table 3 in paragraph (1) or to establish alternative standards as provided in subparagraph (C), effective with respect to model years commencing after January 1, 2003, the regulations under subsection (a) applicable to emissions of nonmethane hydrocarbons (NMHC), oxides of nitrogen (NO_x), and carbon monoxide (CO) from motor vehicles and motor vehicle engines in the classes specified in Table 3 in paragraph (1) above shall contain standards which provide that emissions may not exceed the pending emission levels specified in Table 3 in paragraph (1).

(j) COLD CO STANDARD.—

(1) PHASE I.—Not later than 12 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations under subsection (a) of this section applicable to emissions of carbon monoxide from 1994 and later model year light-duty vehicles and light-duty trucks when operated at 20 degrees Fahrenheit. The regulations shall contain standards which provide that emissions of carbon monoxide from a manufacturer's vehicles when operated at 20 degrees Fahrenheit may not exceed, in the case of light-duty

vehicles, 10.0 grams per mile, and in the case of light-duty trucks, a level comparable in stringency to the standard applicable to light-duty vehicles. The standards shall take effect after model year 1993 according to a phase-in schedule which requires a percentage of each manufacturer's sales volume of light-duty vehicles and light-duty trucks to comply with applicable standards after model year 1993. The percentage shall be as specified in the following table:

PHASE-IN SCHEDULE FOR COLD START STANDARDS

<i>Model year</i>	<i>Percentage</i>
1994	40
1995	80
1996 and after	100

(2) PHASE II.—(A) Not later than June 1, 1997, the Administrator shall complete a study assessing the need for further reductions in emissions of carbon monoxide and the maximum reductions in such emissions achievable from model year 2001 and later model year light-duty vehicles and light-duty trucks when operated at 20 degrees Fahrenheit.

(B)(i) If as of June 1, 1997, 6 or more nonattainment areas have a carbon monoxide design value of 9.5 ppm or greater, the regulations under subsection (a)(1) of this section applicable to emissions of carbon monoxide from model year 2002 and later model year light-duty vehicles and light-duty trucks shall contain standards which provide that emissions of carbon monoxide from such vehicles and trucks when operated at 20 degrees Fahrenheit may not exceed 3.4 grams per mile (gpm) in the case of light-duty vehicles and 4.4 grams per mile (gpm) in the case of light-duty trucks up to 6,000 GVWR and a level comparable in stringency in the case of light-duty trucks 6,000 GVWR and above.

(ii) In determining for purposes of this subparagraph whether 6 or more nonattainment areas have a carbon monoxide design value of 9.5 ppm or greater, the Administrator shall exclude the areas of Steubenville, Ohio, and Oshkosh, Wisconsin.

(3) USEFUL-LIFE FOR PHASE I AND PHASE II STANDARDS.—In the case of the standards referred to in paragraphs (1) and (2), for purposes of certification under section 206 and in-use compliance under section 207, the applicable useful life period shall be 5 years or 50,000 miles, whichever first occurs, except that the Administrator may extend such useful life period (for purposes of section 206, or section 207, or both) if he determines that it is feasible for vehicles and engines subject to such standards to meet such standards for a longer useful life. If the Administrator extends such useful life period, the Administrator may make an appropriate adjustment of applicable standards for such extended useful life. No such extended useful life shall extend beyond the useful life period provided in regulations under subsection (d).

(4) **HEAVY-DUTY VEHICLES AND ENGINES.**—The Administrator may also promulgate regulations under subsection (a)(1) applicable to emissions of carbon monoxide from heavy-duty vehicles and engines when operated at cold temperatures.

(k) **CONTROL OF EVAPORATIVE EMISSIONS.**—The Administrator shall promulgate (and from time to time revise) regulations applicable to evaporative emissions of hydrocarbons from all gasoline-fueled motor vehicles—

(1) during operation; and

(2) over 2 or more days of nonuse;

under ozone-prone summertime conditions (as determined by regulations of the Administrator). The regulations shall take effect as expeditiously as possible and shall require the greatest degree of emission reduction achievable by means reasonably expected to be available for production during any model year to which the regulations apply, giving appropriate consideration to fuel volatility, and to cost, energy, and safety factors associated with the application of the appropriate technology. The Administrator shall commence a rulemaking under this subsection within 12 months after the date of the enactment of the Clean Air Act Amendments of 1990. If final regulations are not promulgated under this subsection within 18 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall submit a statement to the Congress containing an explanation of the reasons for the delay and a date certain for promulgation of such final regulations in accordance with this Act. Such date certain shall not be later than 15 months after the expiration of such 18 month deadline.

(l) **MOBILE SOURCE-RELATED AIR TOXICS.**—

(1) **STUDY.**—Not later than 18 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall complete a study of the need for, and feasibility of, controlling emissions of toxic air pollutants which are unregulated under this Act and associated with motor vehicles and motor vehicle fuels, and the need for, and feasibility of, controlling such emissions and the means and measures for such controls. The study shall focus on those categories of emissions that pose the greatest risk to human health or about which significant uncertainties remain, including emissions of benzene, formaldehyde, and 1, 3 butadiene. The proposed report shall be available for public review and comment and shall include a summary of all comments.

(2) **STANDARDS.**—Within 54 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall, based on the study under paragraph (1), promulgate (and from time to time revise) regulations under subsection (a)(1) or section 211(c)(1) containing reasonable requirements to control hazardous air pollutants from motor vehicles and motor vehicle fuels. The regulations shall contain standards for such fuels or vehicles, or both, which the Administrator determines reflect the greatest degree of emission reduction achievable through the application of technology which will be available, taking into consideration the standards established under subsection (a), the availability and

costs of the technology, and noise, energy, and safety factors, and lead time. Such regulations shall not be inconsistent with standards under section 202(a). The regulations shall, at a minimum, apply to emissions of benzene and formaldehyde.

(m) EMISSIONS CONTROL DIAGNOSTICS.—

(1) REGULATIONS.—Within 18 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations under subsection (a) requiring manufacturers to install on all new light duty vehicles and light duty trucks diagnostics systems capable of—

(A) accurately identifying for the vehicle's useful life as established under this section, emission-related systems deterioration or malfunction, including, at a minimum, the catalytic converter and oxygen sensor, which could cause or result in failure of the vehicles to comply with emission standards established under this section,

(B) alerting the vehicle's owner or operator to the likely need for emission-related components or systems maintenance or repair,

(C) storing and retrieving fault codes specified by the Administrator, and

(D) providing access to stored information in a manner specified by the Administrator.

The Administrator may, in the Administrator's discretion, promulgate regulations requiring manufacturers to install such onboard diagnostic systems on heavy-duty vehicles and engines.

(2) EFFECTIVE DATE.—The regulations required under paragraph (1) of this subsection shall take effect in model year 1994, except that the Administrator may waive the application of such regulations for model year 1994 or 1995 (or both) with respect to any class or category of motor vehicles if the Administrator determines that it would be infeasible to apply the regulations to that class or category in such model year or years, consistent with corresponding regulations or policies adopted by the California Air Resources Board for such systems.

(3) STATE INSPECTION.—The Administrator shall by regulation require States that have implementation plans containing motor vehicle inspection and maintenance programs to amend their plans within 2 years after promulgation of such regulations to provide for inspection of onboard diagnostics systems (as prescribed by regulations under paragraph (1) of this subsection) and for the maintenance or repair of malfunctions or system deterioration identified by or affecting such diagnostics systems. Such regulations shall not be inconsistent with the provisions for warranties promulgated under section 207(a) and (b).

(4) **SPECIFIC REQUIREMENTS.**—In promulgating regulations under this subsection, the Administrator shall require—

(A) that any connectors through which the emission control diagnostics system is accessed for inspection, diagnosis, service, or repair shall be standard and uniform on all motor vehicles and motor vehicle engines;

(B) that access to the emission control diagnostics system through such connectors shall be unrestricted and shall not require any access code or any device which is only available from a vehicle manufacturer; and

(C) that the output of the data from the emission control diagnostics system through such connectors shall be usable without the need for any unique decoding information or device.

(5) **INFORMATION AVAILABILITY.**—The Administrator, by regulation, shall require (subject to the provisions of section 208(c) regarding the protection of methods or processes entitled to protection as trade secrets) manufacturers to provide promptly to any person engaged in the repairing or servicing of motor vehicles or motor vehicle engines, and the Administrator for use by any such persons, with any and all information needed to make use of the emission control diagnostics system prescribed under this subsection and such other information including instructions for making emission related diagnosis and repairs. No such information may be withheld under section 208(c) if that information is provided (directly or indirectly) by the manufacturer to franchised dealers or other persons engaged in the repair, diagnosing, or servicing of motor vehicles or motor vehicle engines. Such information shall also be available to the Administrator, subject to section 208(c), in carrying out the Administrator's responsibilities under this section.

[n](f) **MODEL YEARS AFTER 1990.**—For model years prior to model year 1994, the regulations under section 202(a) applicable to buses other than those subject to standards under section 219 shall contain a standard which provides that emissions of particulate matter (PM) from such buses may not exceed the standards set forth in the following table:

PM STANDARD FOR BUSES

<i>Model year</i>	<i>Standard *</i>
1991	0.25
1992	0.25
1993 and thereafter	0.10

* Standards are expressed in grams per brake horsepower hour (g/bhp/hr).

[¶ 2203]

Sec. 203. ENFORCEMENT OF MOTOR VEHICLE EMISSION STANDARDS

(a) The following acts and the causing thereof are prohibited—

¶ 2203 Sec. 203

(1) in the case of a manufacturer of new motor vehicles or new motor vehicle engines for distribution in commerce, the sale, or the offering for sale, or the introduction, or delivery for introduction, into commerce, or in the case of any person, or part C in the case of clean fuel vehicles (except as provided by regulation of the Administrator), the importation into the United States, of any new motor vehicle or new motor vehicle engine, manufactured after the effective date of regulations under this part which are applicable to such vehicle or engine unless such vehicle or engine is covered by a certificate of conformity issued (and in effect) under regulations prescribed under this part (except as provided in subsection (b));

(2)(A) for any person to fail or refuse to permit access to or copying of records or to fail to make reports or provide information required under section 208;

(B) for any person to fail or refuse to permit entry, testing or inspection authorized under section 206(c) or section 208;

(C) for any person to fail or refuse to perform tests, or have tests performed as required under section 208;

(D) for any manufacturer to fail to make information available as provided by regulation under section 202(m)(5);

(3)(A) for any person to remove or render inoperative any device or element of design installed on or in a motor vehicle or motor vehicle engine in compliance with regulations under this title prior to its sale and delivery to the ultimate purchaser, or for any person knowingly to remove or render inoperative any such device or element of design after such sale and delivery to the ultimate purchaser; or

(B) for any person to manufacture or sell, or offer to sell, or install, any part or component intended for use with, or as part of, any motor vehicle or motor vehicle engine, where a principal effect of the part or component is to bypass, defeat, or render inoperative any device or element of design installed on or in a motor vehicle or motor vehicle engine in compliance with regulations under this title, and where the person knows or should know that such part or component is being offered for sale or installed for such use or put to such use; or

(4) for any manufacturer of a new motor vehicle or new motor vehicle engine subject to standards prescribed under section 202 or part C—

(A) to sell or lease any such vehicle or engine unless such manufacturer has complied with (i) the requirements of section 207(a) and (b) with respect to such vehicle or engine, and unless a label or tag is affixed to such vehicle or engine in accordance with section 207(c)(3), or (ii) the corresponding requirements of part C in the case of clean fuel vehicles unless the manufacturer has complied with the corresponding requirements of part C,

(B) to fail or refuse to comply with the requirements of section 207(c) or (e), or the corresponding requirements of part C in the case of clean fuel vehicles,

(C) except as provided in subsection (c)(3) of section 207 and the corresponding requirements of part C in the case of clean fuel vehicles, to provide directly or indirectly in any communication to the ultimate purchaser or any subsequent purchaser that the coverage of any warranty under this Act is conditioned upon use of any part, component, or system manufactured by such manufacturer or any person acting for such manufacturer or under his control, or conditioned upon service performed by any such person, or

(D) to fail or refuse to comply with the terms and conditions of the warranty under section 207(a) or (b) or the corresponding requirements of part C in the case of clean fuel vehicles with respect to any vehicle; or

(5) for any person to violate section 218, 219, or part C of this title or any regulations under section 218, 219, or part C.

No action with respect to any element of design referred to in paragraph (3) (including any adjustment or alteration of such element) shall be treated as a prohibited act under such paragraph (3) if such action is in accordance with section 215. Nothing in paragraph (3) shall be construed to require the use of manufacturer parts in maintaining or repairing any motor vehicle or motor vehicle engine. For the purposes of the preceding sentence, the term "manufacturer parts" means, with respect to a motor vehicle engine, parts produced or sold by the manufacturer of the motor vehicle or motor vehicle engine.

No action with respect to any device or element of design referred to in paragraph (3) shall be treated as a prohibited act under that paragraph if (i) the action is for the purpose of repair or replacement of the device or element, or is a necessary and temporary procedure to repair or replace any other item and the device or element is replaced upon completion of the procedure, and (ii) such action thereafter results in the proper functioning of the device or element referred to in paragraph (3). No action with respect to any device or element of design referred to in paragraph (3) shall be treated as a prohibited act under that paragraph if the action is for the purpose of a conversion of a motor vehicle for use of a clean alternative fuel (as defined in this title) and if such vehicle complies with the applicable standard under section 202 when operating on such fuel, and if in the case of a clean alternative fuel vehicle (as defined by rule by the Administrator), the device or element is replaced upon completion of the conversion procedure and such action results in proper functioning of the device or element when the motor vehicle operates on conventional fuel.

(b)(1) The Secretary may exempt any new motor vehicle or new motor vehicle engine from subsection (a) upon such terms and conditions as he may find necessary for the purpose of research, investigations, studies, demonstrations, or training, or for reasons of national security.

(2) A new motor vehicle or new motor vehicle engine offered for importation or imported by any person in violation of subsection (a) shall be refused admission into the United States, but the Secretary of the Treasury and the Administrator may, by joint regulation, provide for deferring final determination as to admission and authorizing the delivery of such a motor vehicle or engine offered for import to the owner or consignee thereof upon such terms and conditions (including the furnishing of a bond) as may appear to them appropriate to insure that any such motor vehicle or engine will be brought into conformity with the standards, requirements, and limitations applicable to it under this title. The Secretary of the Treasury shall, if a motor vehicle or engine is finally refused admission under this paragraph, cause disposition thereof in accordance with the customs laws unless it is exported, under regulations prescribed by such Secretary, within ninety days of the date of notice of such refusal or such additional time as may be permitted pursuant to such regulations, except that disposition in accordance with the customs laws may not be made in such manner as may result, directly or indirectly, in the sale, to the ultimate consumer, of a new motor vehicle or new motor vehicle engine that fails to comply with applicable standards of the Administrator under this title.

(3) A new motor vehicle or new motor vehicle engine intended solely for export, and so labeled or tagged on the outside of the container and on the vehicle or engine itself, shall be subject to the provisions of section 202, except that if the country which is to receive such vehicle or engine has emission standards which differ from the standards prescribed under subsection (a), then such vehicle or engine shall comply with the standards of such country which is to receive such vehicle or engine.

[¶ 2204]

Sec. 204. INJUNCTION PROCEEDINGS

(a) The district courts of the United States shall have jurisdiction to restrain violations of section 203(a).

(b) Actions to restrain such violations shall be brought by and in the name of the United States. In any such action, subpoenas for witnesses who are required to attend a district court in any district may run into any other district.

[¶ 2205]

Sec. 205. CIVIL PENALTIES

(a) VIOLATIONS.—Any person who violates sections 203(a)(1), 203(a)(4), or 203(a)(5) or any manufacturer or dealer who violates section 203(a)(3)(A) shall be subject to a civil penalty of not more than \$25,000. Any person other than a manufacturer or dealer who violates section 203(a)(3)(A) or any person who violates section 203(a)(3)(B) shall be subject to a civil penalty of not more than \$2,500. Any such violation with respect to paragraph (1), (3)(A), or (4) of section 203(a) shall constitute a separate offense with respect to each motor vehicle or motor vehicle engine. Any such violation with respect to section

203(a)(3)(B) shall constitute a separate offense with respect to each part or component. Any person who violates section 203(a)(2) shall be subject to a civil penalty of not more than \$25,000 per day of violation.

(b) CIVIL ACTIONS.—The Administrator may commence a civil action to assess and recover any civil penalty under subsection (a) of this section, section 211(d), or section 213(d). Any action under this subsection may be brought in the district court of the United States for the district in which the violation is alleged to have occurred or in which the defendant resides or has the Administrator's principal place of business, and the court shall have jurisdiction to assess a civil penalty. In determining the amount of any civil penalty to be assessed under this subsection, the court shall take into account the gravity of the violation, the economic benefit or savings (if any) resulting from the violation, the size of the violator's business, the violator's history of compliance with this title, action taken to remedy the violation, the effect of the penalty on the violator's ability to continue in business, and such other matters as justice may require. In any such action, subpoenas for witnesses who are required to attend a district court in any district may run into any other district.

(c) ADMINISTRATIVE ASSESSMENT OF CERTAIN PENALTIES.—

(1) ADMINISTRATIVE PENALTY AUTHORITY.—In lieu of commencing a civil action under subsection (b), the Administrator may assess any civil penalty prescribed in subsection (a) of this section, section 211(d), or section 213(d), except that the maximum amount of penalty sought against each violator in a penalty assessment proceeding shall not exceed \$200,000, unless the Administrator and the Attorney General jointly determine that a matter involving a larger penalty amount is appropriate for administrative penalty assessment. Any such determination by the Administrator and the Attorney General shall not be subject to judicial review. Assessment of a civil penalty under this subsection shall be by an order made on the record after opportunity for a hearing in accordance with sections 554 and 556 of title 5 of the United States Code. The Administrator shall issue reasonable rules for discovery and other procedures for hearings under this paragraph. Before issuing such an order, the Administrator shall give written notice to the person to be assessed an administrative penalty of the Administrator's proposal to issue such order and provide such person an opportunity to request such a hearing on the order, within 30 days of the date the notice is received by such person. The Administrator may compromise, or remit, with or without conditions, any administrative penalty which may be imposed under this section.

(2) DETERMINING AMOUNT.—In determining the amount of any civil penalty assessed under this subsection, the Administrator shall take into account the gravity of the violation, the economic benefit or savings (if any) resulting from the violation, the size of the violator's business, the violator's history of compliance with this title, action taken to remedy the violation, the effect of the penalty on the violator's ability to continue in business, and such other matters as justice may require.

(3) **EFFECT OF ADMINISTRATOR'S ACTION.**—(A) Action by the Administrator under this subsection shall not affect or limit the Administrator's authority to enforce any provision of this Act, except that any violation,

(i) with respect to which the Administrator has commenced and is diligently prosecuting an action under this subsection, or

(ii) for which the Administrator has issued a final order not subject to further judicial review and the violator has paid a penalty assessment under this subsection, shall not be the subject of civil penalty action under subsection (b).

(B) No action by the Administrator under this subsection shall affect any person's obligation to comply with any section of this Act.

(4) **FINALITY OF ORDER.**—An order issued under this subsection shall become final 30 days after its issuance unless a petition for judicial review is filed under paragraph (5).

(5) **JUDICIAL REVIEW.**—Any person against whom a civil penalty is assessed in accordance with this subsection may seek review of the assessment in the United States District Court for the District of Columbia, or for the district in which the violation is alleged to have occurred, in which such person resides, or where such person's principal place of business is located, within the 30-day period beginning on the date a civil penalty order is issued. Such person shall simultaneously send a copy of the filing by certified mail to the Administrator and the Attorney General. The Administrator shall file in the court a certified copy, or certified index, as appropriate, of the record on which the order was issued within 30 days. The court shall not set aside or remand any order issued in accordance with the requirements of this subsection unless there is not substantial evidence in the record, taken as a whole, to support the finding of a violation or unless the Administrator's assessment of the penalty constitutes an abuse of discretion, and the court shall not impose additional civil penalties unless the Administrator's assessment of the penalty constitutes an abuse of discretion. In any proceedings, the United States may seek to recover civil penalties assessed under this section.

(6) **COLLECTION.**—If any person fails to pay an assessment of a civil penalty imposed by the Administrator as provided in this subsection—

(A) after the order making the assessment has become final, or

(B) after a court in an action brought under paragraph (5) has entered a final judgment in favor of the Administrator,

the Administrator shall request the Attorney General to bring a civil action in an appropriate district court to recover the amount assessed (plus interest at rates established pursuant to section 6621(a)(2) of the Internal Revenue Code of 1986 from the date of the final order or the date of the final judgment, as the case may be). In such an action, the validity, amount, and appropriateness of the penalty shall not be subject to review. Any person who fails to pay on a timely basis the amount of an assessment of a civil penalty as described in the first sentence of this

paragraph shall be required to pay, in addition to that amount and interest, the United States' enforcement expenses, including attorneys fees and costs for collection proceedings, and a quarterly nonpayment penalty for each quarter during which such failure to pay persists. The nonpayment penalty shall be in an amount equal to 10 percent of the aggregate amount of that person's penalties and nonpayment penalties which are unpaid as of the beginning of such quarter.

[¶ 2206]

Sec. 206. MOTOR VEHICLE AND MOTOR VEHICLE ENGINE COMPLIANCE TESTING AND CERTIFICATION

(a)(1) The Administrator shall test, or require to be tested in such manner as he deems appropriate, any new motor vehicle or new motor vehicle engine submitted by a manufacturer to determine whether such vehicle or engine conforms with the regulations prescribed under section 202 of this Act. If such vehicle or engine conforms to such regulations, the Administrator shall issue a certificate of conformity upon such terms, and for such period (not in excess of one year), as he may prescribe. In the case of any original equipment manufacturer (as defined by the Administrator in regulations promulgated before the date of the enactment of the Clean Air Act Amendments of 1990) of vehicles or vehicle engines whose projected sales in the United States for any model year (as determined by the Administrator) will not exceed 300, the Administrator shall not require, for purposes of determining compliance with regulations under section 202 for the useful life of the vehicle or engine, operation of any vehicle or engine manufactured during such model year for more than 5,000 miles or 160 hours, respectively, unless the Administrator, by regulation, prescribes otherwise. The Administrator shall apply any adjustment factors that the Administrator deems appropriate to assure that each vehicle or engine will comply during its useful life (as determined under section 202(d)) with the regulations prescribed under section 202.

(2) The Administrator shall test any emission control system incorporated in a motor vehicle or motor vehicle engine submitted to him by any person, in order to determine whether such system enables such vehicle or engine to conform to the standards required to be prescribed under section 202(b) of this Act. If the Administrator finds on the basis of such tests that such vehicle or engine conforms to such standards, the Administrator shall issue a verification of compliance with emission standards for such system when incorporated in vehicles of a class of which the tested vehicle is representative. He shall inform manufacturers and the National Academy of Sciences, and make available to the public, the results of such tests. Tests under this paragraph shall be conducted under such terms and conditions (including requirements for preliminary testing by qualified independent laboratories) as the Administrator may prescribe by regulations.

(3)(A) A certificate of conformity may be issued under this section only if the Administrator determines that the manufacturer (or in the case of a vehicle or engine for import, any person) has established to the satisfaction of the Administrator that any emission control device, sys-

tem, or element of design installed on, or incorporated in, such vehicle or engine conforms to applicable requirements of section 202(a)(4).

(B) The Administrator may conduct such tests and may require the manufacturer (or any such person) to conduct such tests and provide such information as is necessary to carry out subparagraph (A) of this paragraph. Such requirements shall include a requirement for prompt reporting of the emission of any unregulated pollutant from a system, device, or element of design if such pollutant was not emitted, or was emitted in significantly lesser amounts, from the vehicle or engine without use of the system, device, or element of design.

(4)(A) Not later than 12 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall revise the regulations promulgated under this subsection to add test procedures capable of determining whether model year 1994 and later model year light-duty vehicles and light-duty trucks, when properly maintained and used, will pass the inspection methods and procedures established under section 207(b) for that model year, under conditions reasonably likely to be encountered in the conduct of inspection and maintenance programs, but which those programs cannot reasonably influence or control. The conditions shall include fuel characteristics, ambient temperature, and short (30 minutes or less) waiting periods before tests are conducted. The Administrator shall not grant a certificate of conformity under this subsection for any 1994 or later model year vehicle or engine that the Administrator concludes cannot pass the test procedures established under this paragraph.

(B) From time to time, the Administrator may revise the regulations promulgated under subparagraph (A), as the Administrator deems appropriate.

(b)(1) In order to determine whether new motor vehicles or new motor vehicle engines being manufactured by a manufacturer do in fact conform with the regulations with respect to which the certificate of conformity was issued, the Administrator is authorized to test such vehicles or engines. Such tests may be conducted by the Administrator directly or, in accordance with conditions specified by the Administrator, by the manufacturer.

(2)(A)(i) If, based on tests conducted under paragraph (1) on a sample of new vehicles or engines covered by a certificate of conformity, the Administrator determines that all or part of the vehicles or engines so covered do not conform with the regulations with respect to which the certificate of conformity was issued and with the requirements of Section 202(a)(4), he may suspend or revoke such certificate in whole or in part, and shall so notify the manufacturer. Such suspension or revocation shall apply in the case of any new motor vehicles or new motor vehicle engines manufactured after the date of such notification (or manufactured before such date if still in the hands of the manufacturer), and shall apply until such time as the Administrator finds that vehicles and engines manufactured by the manufacturer do conform to such regulations and require-

ments. If, during any period of suspension or revocation, the Administrator finds that a vehicle or engine actually conforms to such regulations and requirements, he shall issue a certificate of conformity applicable to such vehicle or engine:

(ii) If, based on tests conducted under paragraph (1) on any new vehicle or engine, the Administrator determines that such vehicle or engine does not conform with such regulations and requirements, he may suspend or revoke such certificate insofar as it applies to such vehicle or engine until such time as he finds such vehicle or engine actually so conforms with such regulations and requirements, and he shall so notify the manufacturer.

(B)(i) At the request of any manufacturer the Administrator shall grant such manufacturer a hearing as to whether the tests have been properly conducted or any sampling methods have been properly applied, and make a determination on the record with respect to any suspension or revocation under subparagraph (A); but suspension or revocation under subparagraph (A) shall not be stayed by reason of such hearing.

(ii) In any case of actual controversy as to the validity of any determination under clause (i), the manufacturer may at any time prior to the 60th day after such determination is made file a petition with the United States court of appeals for the circuit wherein such manufacturer resides or has his principal place of business for a judicial review of such determination. A copy of the petition shall be forthwith transmitted by the clerk of the court to the Administrator or other officer designated by him for that purpose. The Administrator thereupon shall file in the court the record of the proceedings on which the Administrator based his determination, as provided in section 2112 of title 28 of the United States Code.

(iii) If the petitioner applies to the court for leave to adduce additional evidence, and shows to the satisfaction of the court that such additional evidence is material and that there were reasonable grounds for the failure to adduce such evidence in the proceeding before the Administrator, the court may order such additional evidence (and evidence in rebuttal thereof) to be taken before the Administrator, in such manner and upon such terms and conditions as the court may deem proper. The Administrator may modify his findings as to the facts, or make new findings, by reason of the additional evidence so taken and he shall file such modified or new findings, and his recommendation if any, for the modification or setting aside of his original determination, with the return of such additional evidence.

(iv) Upon the filing of the petition referred to in clause (ii), the court shall have jurisdiction to review the order in accor-

dance with chapter 7 of title 5, United States Code, and to grant appropriate relief as provided in such chapter.

(c) For purposes of enforcement of this section, officers or employees duly designated by the Administrator, upon presenting appropriate credentials to the manufacturer or person in charge, are authorized (1) to enter, at reasonable times, any plant or other establishment of such manufacturer, for the purpose of conducting tests of vehicles or engines in the hands of the manufacturer, or (2) to inspect at reasonable times, records, files, papers, processes, controls, and facilities used by such manufacturer in conducting tests under regulations of the Administrator. Each such inspection shall be commenced and completed with reasonable promptness.

(d) The Administrator shall by regulation establish methods and procedures for making tests under this section.

(e) The Administrator shall make available to the public the results of his tests of any motor vehicle or motor vehicle engine submitted by a manufacturer under subsection (a) as promptly as possible after the enactment of the Clean Air Amendments of 1970 and at the beginning of each model year which begins thereafter. Such results shall be described in such nontechnical manner as will reasonably disclose to prospective ultimate purchasers of new motor vehicles and new motor vehicle engines the comparative performance of the vehicles and engines tested in meeting the standards prescribed under section 202 of this Act.

(f) All light duty vehicles and engines manufactured during or after model year 1984 and all light-duty trucks manufactured during or after model year 1995 shall comply with the requirements of section 202 of this Act regardless of the altitude at which they are sold.

(g)(1) In the case of any class or category of heavy-duty vehicles or engines to which a standard promulgated under section 202(a) of this Act applies, except as provided in paragraph (2), a certificate of conformity shall be issued under subsection (a) and shall not be suspended or revoked under subsection (b) for such vehicles or engines manufactured by a manufacturer notwithstanding the failure of such vehicles or engines to meet such standard if such manufacturer pays a nonconformance penalty as provided under regulations promulgated by the Administrator after notice and opportunity for public hearing. In the case of motorcycles to which such a standard applies, such a certificate may be issued notwithstanding such failure if the manufacturer pays such a penalty.

(2) No certificate of conformity may be issued under paragraph (1) with respect to any class or category of vehicle or engine if the degree by which the manufacturer fails to meet any standard promulgated under section 202(a) with respect to such class or category exceeds the percentage determined under regulations promulgated by the Administrator to be practicable. Such regulations shall require such testing of vehicles or engines being produced as may be necessary to determine the percentage of the classes or categories of vehicles or engines which are not in compliance with the regulations with respect to which a certificate of

conformity was issued and shall be promulgated not later than one year after the date of enactment of the Clean Air Act Amendments of 1977.

(3) The regulations promulgated under paragraph (1) shall, not later than one year after the date of enactment of the Clean Air Act Amendments of 1977, provide for nonconformance penalties in amounts determined under a formula established by the Administrator. Such penalties under such formula—

(A) may vary from pollutant-to-pollutant;

(B) may vary by class or category or vehicle or engine;

(C) shall take into account the extent to which actual emissions of any air pollutant exceed allowable emissions under the standards promulgated under section 202;

(D) shall be increased periodically in order to create incentives for the development of production vehicles or engines which achieve the required degree of emission reduction; and

(E) shall remove any competitive disadvantage to manufacturers whose engines or vehicles achieve the required degree of emission reduction (including any such disadvantage arising from the application of paragraph (4)).

(4) In any case in which a certificate of conformity has been issued under this subsection, any warranty required under section 207(b)(2) and any action under section 207(c) shall be required to be effective only for the emission levels which the Administrator determines that such certificate was issued and not for the emission levels required under the applicable standard.

(5) The authorities of section 208(a) shall apply, subject to the conditions of section 208(b), for purposes of this subsection.

(h) Within 18 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall review and revise as necessary the regulations under subsection (a) and (b) of this section regarding the testing of motor vehicles and motor vehicle engines to insure that vehicles are tested under circumstances which reflect the actual current driving conditions under which motor vehicles are used, including conditions relating to fuel, temperature, acceleration, and altitude.

[¶ 2207]

Sec. 207. COMPLIANCE BY VEHICLES AND ENGINES IN ACTUAL USE

(a)(1) Effective with respect to vehicles and engines manufactured in model years beginning more than 60 days after the date of the enactment of the Clean Air Act Amendments of 1970, the manufacturer of each new motor vehicle and new motor vehicle engine shall warrant to the ultimate purchaser and each subsequent purchaser that such vehicle or engine is (A) designed, built, and equipped so as to conform at the time of sale with applicable regulations under section 202, and (B) free from defects in materials and workmanship which cause such vehicle or engine to fail to conform with

applicable regulations for its useful life (as determined under section 202(d)). In the case of vehicles and engines manufactured in the model year 1995 and thereafter such warranty shall require that the vehicle or engine is free from any such defects for the warranty period provided under subsection (i).

(2) In the case of a motor vehicle part or motor vehicle engine part, the manufacturer or rebuilder of such part may certify that use of such part will not result in a failure of the vehicle or engine to comply with emission standards promulgated under section 202. Such certification shall be made only under such regulations as may be promulgated by the Administrator to carry out the purposes of subsection (b). The Administrator shall promulgate such regulations no later than two years following the date of the enactment of this paragraph.

(3) The cost of any part, device, or component of any light-duty vehicle that is designed for emission control and which in the instructions issued pursuant to subsection (c)(3) of this section is scheduled for replacement during the useful life of the vehicle in order to maintain compliance with regulations under section 202 of this Act, the failure of which shall not interfere with the normal performance of the vehicle, and the expected retail price of which, including installation costs, is greater than 2 percent of the suggested retail price of such vehicle, shall be borne or reimbursed at the time of replacement by the vehicle manufacturer and such replacement shall be provided without cost to the ultimate purchaser, subsequent purchaser, or dealer. The term "designed for emission control" as used in the preceding sentence means a catalytic converter, thermal reactor, or other component installed on or in a vehicle for the sole or primary purpose of reducing vehicle emissions (not including those vehicle components which were in general use prior to model year 1968 and the primary function of which is not related to emission control).

(b) If the Administrator determines that (i) there are available testing methods and procedures to ascertain whether, when in actual use throughout the warranty period (as determined under subsection (i)), each vehicle and engine to which regulations under section 202 apply complies with the emission standards of such regulations, (ii) such methods and procedures are in accordance with good engineering practices, and (iii) such methods and procedures are reasonably capable of being correlated with tests conducted under section 206(a)(1), then—

(1) he shall establish such methods and procedures by regulation, and

(2) at such time as he determines that inspection facilities or equipment are available for purposes of carrying out testing methods and procedures established under paragraph (1), he shall prescribe regulations which shall require manufacturers to warrant the emission control device or system of each new motor vehicle or new motor vehicle engine to which a regulation under section 202 applies and which is manufactured in a model year beginning after the Administrator first prescribes warranty regulations under this paragraph (2). The warranty under such regula-

tions shall run to the ultimate purchaser and each subsequent purchaser and shall provide that if—

(A) the vehicle or engine is maintained and operated in accordance with instructions under subsection 207(c)(3),

(B) it fails to conform at any time during the warranty period (as determined under subsection (i)) to the regulations prescribed under section 202, and

(C) such nonconformity results in the ultimate purchaser (or any subsequent purchaser) of such vehicle or engine having to bear any penalty or other sanction (including the denial of the right to use such vehicle or engine) under State or Federal law,

then such manufacturer shall remedy such nonconformity under such warranty with the cost thereof to be borne by the manufacturer. No such warranty shall be invalid on the basis of any part used in the maintenance or repair of a vehicle or engine if such part was certified as provided under subsection (a)(2).

(c) Effective with respect to vehicles and engines manufactured during model years beginning more than 60 days after the date of enactment of the Clean Air Amendments of 1970—

(1) If the Administrator determines that a substantial number of any class or category of vehicles or engines, although properly maintained and used, do not conform to the regulations prescribed under section 202, when in actual use throughout their useful life (as determined under section 202(d)), he shall immediately notify the manufacturer thereof of such nonconformity, and he shall require the manufacturer to submit a plan for remedying the nonconformity of the vehicles or engines with respect to which such notification is given. The plan shall provide that the nonconformity of any such vehicles or engines which are properly used and maintained will be remedied at the expense of the manufacturer. If the manufacturer disagrees with such determination of nonconformity and so advises the Administrator, the Administrator shall afford the manufacturer and other interested persons an opportunity to present their views and evidence in support thereof at a public hearing. Unless, as a result of such hearing the Administrator withdraws such determination of nonconformity, he shall, within 60 days after the completion of such hearing, order the manufacturer to provide prompt notification of such nonconformity in accordance with paragraph (2).

(2) Any notification required by paragraph (1) with respect to any class or category of vehicles or engines shall be given to dealers, ultimate purchasers, and subsequent purchasers (if known) in such manner and containing such information as the Administrator may by regulations require.

(3)(A) The manufacturer shall furnish with each new motor vehicle or motor vehicle engine written instructions for the proper maintenance and use of the vehicle or engine by the ultimate purchaser and such

instructions shall correspond to regulations which the Administrator shall promulgate. The manufacturer shall provide in boldface type on the first page of the written maintenance instructions notice that maintenance, replacement, or repair of the emission control devices and systems may be performed by any automotive repair establishment or individual using any automotive part which has been certified as provided in subsection (a)(2).

(B) The instruction under subparagraph (A) of this paragraph shall not include any condition on the ultimate purchaser's using, in connection with such vehicle or engine, any component or service (other than a component or service provided without charge under the terms of the purchase agreement) which is identified by brand, trade, or corporate name; or directly or indirectly distinguishing between service performed by the franchised dealers of such manufacturer or any other service establishments with which such manufacturer has a commercial relationship, and service performed by independent automotive repair facilities with which such manufacturer has no commercial relationship; except that the prohibition of this subsection may be waived by the Administrator if—

(i) the manufacturer satisfies the Administrator that the vehicle or engine will function properly only if the component or service so identified is used in connection with such vehicle or engine, and

(ii) the Administrator finds that such a waiver is in the public interest.

(C) In addition, the manufacturer shall indicate by means of a label or tag permanently affixed to such vehicle or engine that such vehicle or engine is covered by a certificate of conformity issued for the purpose of assuring achievement of emissions standards prescribed under section 202 of this Act. Such label or tag shall contain such other information relating to control of motor vehicle emissions as the Administrator shall prescribe by regulation.

(4) INTERMEDIATE IN-USE STANDARDS.—

(A) MODEL YEARS 1994 AND 1995.—For light-duty trucks of up to 6,000 lbs. gross vehicle weight rating (GVWR) and light-duty vehicles which are subject to standards under table G of section 202(g)(1) in model years 1994 and 1995 (40 percent of the manufacturer's sales volume in model year 1994 and 80 percent in model year 1995), the standards applicable to NMHC, CO, and NO_x for purposes of this subsection shall be those set forth in table A below in lieu of the standards for such air pollutants otherwise applicable under this title.

TABLE A—INTERMEDIATE IN-USE STANDARDS
LDTs UP TO 6,000 LBS. GVWR AND LIGHT-DUTY
VEHICLES

<i>Vehicle Type</i>	<i>NMHC</i>	<i>CO</i>	<i>NO_x</i>
Light-duty vehicles	0.32	3.4	0.4*
LDT's (0-3,750 LVW)	0.32	5.2	0.4*
LDT's (3,751-5,750 LVW)	0.41	6.7	0.7*

* Not applicable to diesel-fueled vehicles.

(B) MODEL YEARS 1996 AND THEREAFTER.—(i) In the model years 1996 and 1997, light-duty trucks (LDTs) up to 6,000 lbs. gross vehicle weight rating (GVWR) and light-duty vehicles which are not subject to final in-use standards under paragraph (5) (60 percent of the manufacturer's sales volume in model year 1996 and 20 percent in model year 1997) shall be subject to the standards set forth in table A of subparagraph (A) for NMHC, CO, and NO_x for purposes of this subsection in lieu of those set forth in paragraph (5).

(ii) For LDTs of more than 6,000 lbs. GVWR—

(I) in model year 1996 which are subject to the standards set forth in Table H of section 202(h)(50%);

(II) in model year 1997 (100%); and

(III) in model year 1998 which are not subject to final in-use standards under paragraph (5) (50%);

the standards for NMHC, CO, and NO_x for purposes of this subsection shall be those set forth in Table B below in lieu of the standards for such air pollutants otherwise applicable under this title.

TABLE B—INTERMEDIATE IN-USE STANDARDS LDTs
MORE THAN 6,000 LBS. GVWR

<i>Vehicle type</i>	<i>NMHC</i>	<i>CO</i>	<i>NO_x</i>
LDTs (3,751-5,750 lbs. TW)	0.40	5.5	0.88*
LDTs (over 5,750 lbs. TW)	0.49	6.2	1.38*

* Not applicable to diesel-fueled vehicles.

(C) USEFUL LIFE.—In the case of the in-use standards applicable under this paragraph, for purposes of applying this subsection, the applicable useful life shall be 5 years or 50,000 miles or the equivalent (whichever first occurs).

(5) FINAL IN-USE STANDARDS.—(A) After the model year 1995, for purposes of applying this subsection, in the case of the percentage specified in the implementation schedule below of each manufacturer's sales volume of light-duty trucks of up to 6,000 lbs. gross vehicle weight rating (GVWR) and light duty vehicles, the standards for NMHC, CO, and NO_x shall be as provided in Table G in section 202(g), except that in applying the standards set forth in Table G for purposes of determining

compliance with this subsection, the applicable useful life shall be (i) 5 years or 50,000 miles (or the equivalent) whichever first occurs in the case of standards applicable for purposes of certification at 50,000 miles; and (ii) 10 years or 100,000 miles (or the equivalent), whichever first occurs in the case of standards applicable for purposes of certification at 100,000 miles, except that no testing shall be done beyond 7 years or 75,000 miles, or the equivalent whichever first occurs.

**LDTS UP TO 6,000 LBS. GVWR AND LIGHT-DUTY
VEHICLE SCHEDULE FOR IMPLEMENTATION OF FINAL
IN-USE STANDARDS**

<i>Model year</i>	<i>Percent</i>	<i>Model year</i>	<i>Percent</i>
1996	40	1998	100
1997	80		

(B) After the model year 1997, for purposes of applying this subsection, in the case of the percentage specified in the implementation schedule below of each manufacturer's sales volume of light-duty trucks of more than 6,000 lbs. gross vehicle weight rating (GVWR), the standards for NMHC, CO, and NO_x shall be as provided in Table H in section 202(h), except that in applying the standards set forth in Table H for purposes of determining compliance with this subsection, the applicable useful life shall be (i) 5 years or 50,000 miles (or the equivalent) whichever first occurs in the case of standards applicable for purposes of certification at 50,000 miles; and (ii) 11 years or 120,000 miles (or the equivalent), whichever first occurs in the case of standards applicable for purposes of certification at 120,000 miles, except that no testing shall be done beyond 7 years or 90,000 miles (or the equivalent) whichever first occurs.

**LDTS OF MORE THAN 6,000 LBS. GVWR
IMPLEMENTATION SCHEDULE FOR IMPLEMENTATION
OF FINAL
IN-USE STANDARDS**

<i>Model year</i>	<i>Percent</i>	<i>Model year</i>	<i>Percent</i>
1998	50	1999	100

(6) DIESEL VEHICLES; IN-USE USEFUL LIFE AND TESTING.—(A) In the case of diesel-fueled light-duty trucks up to 6,000 lbs GVWR and light-duty vehicles, the useful life for purposes of determining in-use compliance with the standards under section 202(g) for NO_x shall be a period of 10 years or 100,000 miles (or the equivalent), whichever first occurs, in the case of standards applicable for purposes of certification at 100,000 miles, except that testing shall not be done for a period beyond 7 years or 75,000 miles (or the equivalent) whichever first occurs.

(B) In the case of diesel-fueled light-duty trucks of 6,000 lbs GVWR or more, the useful life for purposes of determining in-use compliance with the standards under section 202(h) for NO_x shall be

a period of 11 years or 120,000 miles (or the equivalent), whichever first occurs, in the case of standards applicable for purposes of certification at 120,000 miles, except that testing shall not be done for a period beyond 7 years or 90,000 miles (or the equivalent) whichever first occurs.

(d) Any cost obligation of any dealer incurred as a result of any requirement imposed by subsection (a), (b), or (c) shall be borne by the manufacturer. The transfer of any such cost obligation from a manufacturer to any dealer through franchise or other agreement is prohibited.

(e) If a manufacturer includes in any advertisement a statement respecting the cost or value of emission control devices or systems, such manufacturer shall set forth in such statement the cost or value attributed to such devices or systems by the Secretary of Labor (through the Bureau of Labor Statistics). The Secretary of Labor and his representatives, shall have the same access for this purpose to the books, documents, papers, and records of a manufacturer as the Comptroller General has to those of a recipient of assistance for purposes of section 311.

(f) Any inspection of a motor vehicle or a motor vehicle engine for purposes of subsection (c)(1), after its sale to the ultimate purchaser, shall be made only if the owner of such vehicle or engine voluntarily permits such inspection to be made, except as may be provided by any State or local inspection program.

(g) For the purposes of this section, the owner of any motor vehicle or motor vehicle engine warranted under this section is responsible in the proper maintenance of such vehicle or engine to replace and to maintain, at his expense at any service establishment or facility of his choosing, such items as spark plugs, points, condensers, and any other part, item, or device related to emission control (but not designed for emission control under the terms of the last sentence of section 207(a)(3)), unless such part, item, or device is covered by any warranty not mandated by this Act.

(h)(1) Upon the sale of each new light-duty motor vehicle by a dealer, the dealer shall furnish to the purchaser a certificate that such motor vehicle conforms to the applicable regulations under section 202, including notice of the purchaser's rights under paragraph (2).

(2) If at any time during the period for which the warranty applies under subsection (b), a motor vehicle fails to conform to the applicable regulations under section 202 as determined under subsection (b) of this section such nonconformity shall be remedied by the manufacturer at the cost of the manufacturer pursuant to such warranty as provided in section 207(b)(2) (without regard to subparagraph (C) thereof).

(3) Nothing in section 209(a) shall be construed to prohibit a State from testing, or requiring testing of, a motor vehicle after the date of sale of such vehicle to the ultimate purchaser (except that no new motor vehicle manufacturer or dealer may be required to conduct testing under this paragraph).

(i) WARRANTY PERIOD.—

(1) IN GENERAL.—For purposes of subsection (a)(1) and subsection (b), the warranty period, effective with respect to new light-duty trucks and new light-duty vehicles and engines, manufactured in the model year 1995 and thereafter, shall be the first 2 years or 24,000 miles of use (whichever first occurs), except as provided in paragraph (2). For purposes of subsection (a)(1) and subsection (b), for other vehicles and engines the warranty period shall be the period established by the Administrator by regulation (promulgated prior to the enactment of the Clean Air Act Amendments of 1990) for such purposes unless the Administrator subsequently modifies such regulation.

(2) SPECIFIED MAJOR EMISSION CONTROL COMPONENTS.—In the case of a specified major emission control component, the warranty period for new light-duty trucks and new light-duty vehicles and engines manufactured in the model year 1995 and thereafter for purposes of subsection (a)(1) and subsection (b) shall be 8 years or 80,000 miles of use (whichever first occurs). As used in this paragraph, the term “specified major emission control component” means only a catalytic converter, an electronic emissions control unit, and an onboard emissions diagnostic device, except that the Administrator may designate any other pollution control device or component as a specified major emission control component if—

(A) the device or component was not in general use on vehicles and engines manufactured prior to the model year 1990; and

(B) the Administrator determines that the retail cost (exclusive of installation costs) of such device or component exceeds \$200 (in 1989 dollars, adjusted for inflation or deflation as calculated by the Administrator at the time of such determination).

For purposes of this paragraph, the term “onboard emissions diagnostic device” means any device installed for the purpose of storing or processing emissions related diagnostic information, but not including any parts or other systems which it monitors except specified major emissions control components. Nothing in this Act shall be construed to provide that any part (other than a part referred to in the preceding sentence) shall be required to be warranted under this Act for the period of 8 years or 80,000 miles referred to in this paragraph.

(3) INSTRUCTIONS.—Subparagraph (A) of subsection (b)(2) shall apply only where the Administrator has made a determination that the instructions concerned conform to the requirements of subsection (c)(3).

[¶ 2208]

Sec. 208. INFORMATION COLLECTION

(a) MANUFACTURER'S RESPONSIBILITY.—Every manufacturer of new motor vehicles or new motor vehicle engines, and every manufacturer of new motor vehicle or engine parts or components, and other persons subject to the requirements of this part or part C, shall establish and maintain records, perform tests where such testing is not otherwise reasonably available under

this part and part C (including fees for testing), make reports and provide information the Administrator may reasonably require to determine whether the manufacturer or other person has acted or is acting in compliance with this part and part C and regulations thereunder, or to otherwise carry out the provision of this part and part C, and shall, upon request of an officer or employee duly designated by the Administrator, permit such officer or employee at reasonable times to have access to and copy such records.

(b) **ENFORCEMENT AUTHORITY.**—For the purposes of enforcement of this section, officers or employees duly designated by the Administrator upon presenting appropriate credentials are authorized—

(1) to enter, at reasonable times, any establishment of the manufacturer, or of any person whom the manufacturer engages to perform any activity required by subsection (a), for the purposes of inspecting or observing any activity conducted pursuant to subsection (a), and

(2) to inspect records, files, papers, processes, controls, and facilities used in performing any activity required by subsection (a), by such manufacturer or by any person whom the manufacturer engages to perform any such activity.

(c) **AVAILABILITY TO THE PUBLIC; TRADE SECRETS.**—Any records, reports, or information obtained under this part or part C shall be available to the public, except that upon a showing satisfactory to the Administrator by any person that records, reports, or information, or a particular portion thereof (other than emission data), to which the Administrator has access under this section, if made public, would divulge methods or processes entitled to protection as trade secrets of that person, the Administrator shall consider the record, report, or information or particular portion thereof confidential in accordance with the purposes of section 1905 of title 18 of the United States Code. Any authorized representative of the Administrator shall be considered an employee of the United States for purposes of section 1905 of title 18 of the United States Code. Nothing in this section shall prohibit the Administrator or authorized representative of the Administrator from disclosing records, reports or information to other officers, employees or authorized representatives of the United States concerned with carrying out this Act or when relevant in any proceeding under this Act. Nothing in this section shall authorize the withholding of information by the Administrator or any officer or employee under the Administrator's control from the duly authorized committees of the Congress.

[¶ 2209]

Sec. 209. STATE STANDARDS

(a) No State or any political subdivision thereof shall adopt or attempt to enforce any standard relating to the control of emissions from new motor vehicles or new motor vehicle engines subject to this part. No State shall require certification, inspection, or any other approval relating to the control of emissions from any new motor vehicle or new motor vehicle engine as

condition precedent to the initial retail sale, titling (if any), or registration of such motor vehicle, motor vehicle engine, or equipment.

(b)(1) The Administrator shall, after notice and opportunity for public hearing, waive application of this section to any State which has adopted standards (other than crankcase emission standards) for the control of emissions from new motor vehicles or new motor vehicle engines prior to March 30, 1966, if the State determines that the State standards will be, in the aggregate, at least as protective of public health and welfare as applicable Federal standards. No such waiver shall be granted if the Administrator finds that—

(A) the determination of the State is arbitrary and capricious,

(B) such State does not need such State standards to meet compelling and extraordinary conditions, or

(C) such State standards and accompanying enforcement procedures are not consistent with section 202(a) of this part.

(2) If each State standard is at least as stringent as the comparable applicable Federal standard, such State standard shall be deemed to be at least as protective of health and welfare as such Federal standards for purposes of paragraph (1).

(3) In the case of any new motor vehicle or new motor vehicle engine to which State standards apply pursuant to a waiver granted under paragraph (1), compliance with such State standards shall be treated as compliance with applicable Federal standards for purposes of this title.

(c) Whenever a regulation with respect to any motor vehicle part or motor vehicle engine part is in effect under section 207(a)(2), no State or political subdivision thereof shall adopt or attempt to enforce any standard or any requirement of certification, inspection, or approval which relates to motor vehicle emissions and is applicable to the same aspect of such part. The preceding sentence shall not apply in the case of a State with respect to which a waiver is in effect under subsection (b).

(d) Nothing in this part shall preclude or deny to any State or political subdivision thereof the right otherwise to control, regulate, or restrict the use, operation, or movement of registered or licensed motor vehicles.

(e) NONROAD ENGINES OR VEHICLES.—

(1) PROHIBITION ON CERTAIN STATE STANDARDS.—No State or any political subdivision thereof shall adopt or attempt to enforce any standard or other requirement relating to the control of emissions from either of the following new nonroad engines or nonroad vehicles subject to regulation under this Act—

(A) New engines which are used in construction equipment or vehicles or used in farm equipment or vehicles and which are smaller than 175 horsepower.

(B) New locomotives or new engines used in locomotives.

Subsection (b) shall not apply for purposes of this paragraph.

(2) OTHER NONROAD ENGINES OR VEHICLES.—(A) In the case of any nonroad vehicles or engines other than those referred to in subparagraph (A) or (B) of paragraph (1), the Administrator shall, after notice and opportunity for public hearing, authorize California to adopt and enforce standards and other requirements relating to the control of emissions from such vehicles or engines if California determines that California standards will be, in the aggregate, at least as protective of public health and welfare as applicable Federal standards. No such authorization shall be granted if the Administrator finds that—

(i) the determination of California is arbitrary and capricious,

(ii) California does not need such California standards to meet compelling and extraordinary conditions, or

(iii) California standards and accompanying enforcement procedures are not consistent with this section.

(B) Any State other than California which has plan provisions approved under part D of title I may adopt and enforce, after notice to the Administrator, for any period, standards relating to control of emissions from nonroad vehicles or engines (other than those referred to in subparagraph (A) or (B) of paragraph (1)) and take such other actions as are referred to in subparagraph (A) of this paragraph respecting such vehicles or engines if—

(i) such standards and implementation and enforcement are identical, for the period concerned, to the California standards authorized by the Administrator under subparagraph (A), and

(ii) California and such State adopt such standards at least 2 years before commencement of the period for which the standards take effect.

The Administrator shall issue regulations to implement this subsection.

[¶ 2210]

Sec. 210. STATE GRANTS

The Administrator is authorized to make grants to appropriate State agencies in an amount up to two-thirds of the cost of developing and maintaining effective vehicle emission devices and systems inspection and emission testing and control programs, except that—

(1) no such grant shall be made for any part of any State vehicle inspection program which does not directly relate to the cost of the air pollution control aspects of such a program;

(2) no such grant shall be made unless the Secretary of Transportation has certified to the Administrator that such program is consistent with any highway safety program developed pursuant to section 402 of title 23 of the United States Code; and

(3) no such grant shall be made unless the program includes provisions designed to insure that emission control devices and systems on vehicles in actual use have not been discontinued or rendered inoperative.

Grants may be made under this section by way of reimbursement in any case in which amounts have been expended by the State before the date on which any such grant was made.

[¶ 2211]

Sec. 211. REGULATION OF FUELS

(a) The Administrator may by regulation designate any fuel or fuel additive (including any fuel or fuel additive used exclusively in nonroad engines or nonroad vehicles) and, after such date or dates as may be prescribed by him, no manufacturer or processor of any such fuel or additive may sell, offer for sale, or introduce into commerce such fuel or additive unless the Administrator has registered such fuel or additive in accordance with subsection (b) of this section.

(b)(1) For the purpose of registration of fuels and fuel additives, the Administrator shall require—

(A) the manufacturer of any fuel to notify him as to the commercial identifying name and manufacturer of any additive contained in such fuel; the range of concentration of any additive in the fuel; and the purpose-in-use of any such additive; and

(B) the manufacturer of any additive to notify him as to the chemical composition of such additive.

(2) For the purpose of registration of fuels and fuel additives, the Administrator may also require the manufacturer of any fuel or fuel additive—

(A) to conduct tests to determine potential public health effects of such fuel or additive (including, but not limited to, carcinogenic, teratogenic, or mutagenic effects), and

(B) to furnish the description of any analytical technique that can be used to detect and measure any additive in such fuel, the recommended range of concentration of such additive, and the recommended purpose-in-use of such additive, and such other information as is reasonable and necessary to determine the emissions resulting from the use of the fuel or additive contained in such fuel, the effect of such fuel or additive on the emission control performance of any vehicle, vehicle engine nonroad engine or nonroad vehicle, or the extent to which such emissions affect the public health or welfare.

Tests under subparagraph (A) shall be conducted in conformity with test procedures and protocols established by the Administrator. The result of such tests shall not be considered confidential.

(3) Upon compliance with the provision of this subsection, including assurances that the Administrator will receive changes in the information required, the Administrator shall register such fuel or fuel additive.

(c)(1) The Administrator may, from time to time on the basis of information obtained under subsection (b) of this section or other information available to him, by regulation, control or prohibit the manufacture, introduction into commerce, offering for sale, or sale of any fuel or fuel additive for use in a motor vehicle, motor vehicle engine, or nonroad engine or nonroad vehicle (A) if in the judgment of the Administrator any emission product of such fuel or fuel additive causes, or contributes, to air pollution which may reasonably be anticipated to endanger the public health or welfare, or (B) if emission products of such fuel or fuel additive will impair to a significant degree the performance of any emission control device or system which is in general use, or which the Administrator finds has been developed to a point where in a reasonable time it would be in general use were such regulation to be promulgated.

(2)(A) No fuel, class of fuels, or fuel additive may be controlled or prohibited by the Administrator pursuant to clause (A) of paragraph (1) except after consideration of all relevant medical and scientific evidence available to him, including consideration of other technologically or economically feasible means of achieving emission standards under section 202.

(B) No fuel or fuel additive may be controlled or prohibited by the Administrator pursuant to clause (B) of paragraph (1) except after consideration of available scientific and economic data, including a cost benefit analysis comparing emission control devices or systems which are or will be in general use and require the proposed control or prohibition with emission control devices or systems which are or will be in general use and do not require the proposed control or prohibition. On request of a manufacturer of motor vehicles, motor vehicle engines, fuels, or fuel additives submitted within 10 days of notice of proposed rulemaking, the Administrator shall hold a public hearing and publish findings with respect to any matter he is required to consider under this subparagraph. Such findings shall be published at the time of promulgation of final regulations.

(C) No fuel or fuel additive may be prohibited by the Administrator under paragraph (1) unless he finds, and publishes such finding, that in his judgment such prohibition will not cause the use of any other fuel or fuel additive which will produce emissions which will endanger the public health or welfare to the same or greater degree than the use of the fuel or fuel additive proposed to be prohibited.

(3)(A) For the purpose of obtaining evidence and data to carry out paragraph (2), the Administrator may require the manufacturer of any motor vehicle or motor vehicle engine to furnish any information which has been developed concerning the emissions from motor vehicles result-

ing from the use of any fuel or fuel additive, or the effect of such use on the performance of any emission control device or system.

(B) In obtaining information under subparagraph (A), section 307(a) (relating to subpoenas) shall be applicable.

(4)(A) Except as otherwise provided in subparagraph (B) or (C), no State (or political subdivision thereof) may prescribe or attempt to enforce, for purposes of motor vehicle emission control, any control or prohibition respecting any characteristic component of a fuel or fuel additive in a motor vehicle or motor vehicle engine—

(i) if the Administrator has found that no control or prohibition of the characteristic or component of a fuel or fuel additive under paragraph (1) is necessary and has published his finding in the Federal Register, or

(ii) if the Administrator has prescribed under paragraph (1) a control or prohibition applicable to such characteristic or component of a fuel or fuel additive, unless State prohibition or control is identical to the prohibition or control prescribed by the Administrator.

(B) Any State for which application of section 209(a) has at any time been waived under section 209(b) may at any time prescribe and enforce, for the purpose of motor vehicle emission control, a control or prohibition respecting any fuel or fuel additive.

(C) A State may prescribe and enforce, for purposes of motor vehicle emission control, a control or prohibition respecting the use of a fuel or fuel additive in a motor vehicle or motor vehicle engine if an applicable implementation plan for such State under section 110 so provides. The Administrator may approve such provision in an implementation plan, or promulgate an implementation plan containing such a provision, only if he finds that the State control or prohibition is necessary to achieve the national primary or secondary ambient air quality standard which the plan implements. The Administrator may find that a State control or prohibition is necessary to achieve that standard if no other measures that would bring about timely attainment exist, or if other measures exist and are technically possible to implement, but are unreasonable or impracticable. The Administrator may make a finding of necessity under this subparagraph even if the plan for the area does not contain an approved demonstration of timely attainment.

(d) PENALTIES AND INJUNCTIONS.—

(1) CIVIL PENALTIES.—Any person who violates subsection (a), (f), (g), (k), (l), (m), or (n) of this section or the regulations prescribed under subsection (c), (h), (i), (k), (l), (m), or (n) of this section or who fails to furnish any information or conduct any tests required by the Administrator under subsection (b) of this section shall be liable to the United States for a civil penalty of not more than the sum of \$25,000 for every day of

such violation and the amount of economic benefit or savings resulting from the violation. Any violation with respect to a regulation prescribed under subsection (c), (k), (l), or (m) of this section which establishes a regulatory standard based upon a multiday averaging period shall constitute a separate day of violation for each and every day in the averaging period. Civil penalties shall be assessed in accordance with subsections (b) and (c) of section 205.

(2) **INJUNCTIVE AUTHORITY.**—The district courts of the United States shall have jurisdiction to restrain violations of subsections (a), (f), (g), (k), (l), (m), and (n) of this section and of the regulations prescribed under subsections (c), (h), (i), (k), (l), (m), and (n) of this section, to award other appropriate relief, and to compel the furnishing of information and the conduct of tests required by the Administrator under subsection (b) of this section. Actions to restrain such violations and compel such actions shall be brought by and in the name of the United States. In any such action, subpoenas for witnesses who are required to attend a district court in any district may run into any other district.

(e)(1) Not later than one year after the date of enactment of this subsection and after notice and opportunity for a public hearing, the Administrator shall promulgate regulations which implement the authority under subsection (b)(2)(A) and (B) with respect to each fuel or fuel additive which is registered on the date of promulgation of such regulations and with respect to each fuel or fuel additive for which an application for registration is filed thereafter.

(2) Regulations under subsection (b) to carry out this subsection shall require that the requisite information be provided to the Administrator by each such manufacturer—

(A) prior to registration, in the case of any fuel or fuel additive which is not registered on the date of promulgation of such regulations; or

(B) not later than three years after the date of promulgation of such regulations, in the case of any fuel or fuel additive which is registered on such date.

(3) In promulgating such regulations, the Administrator may—

(A) exempt any small business (as defined in such regulations) from or defer or modify the requirements of, such regulations with respect to any such small business;

(B) provide for cost-sharing with respect to the testing of any fuel or fuel additive which is manufactured or processed by two or more persons or otherwise provide for shared responsibility to meet the requirements of this section without duplication; or

(C) exempt any person from such regulations with respect to a particular fuel or fuel additive upon a finding that any additional testing of such fuel or fuel additive would be duplicative of adequate existing testing.

(f)(1)(A) Effective upon March 31, 1977, it shall be unlawful for any manufacturer of any fuel or fuel additive to first introduce into commerce, or to increase the concentration in use of, any fuel or fuel additive for general use in light duty motor vehicles manufactured after model year 1974 which is not substantially similar to any fuel or fuel additive utilized in the certification of any model year 1975, or subsequent model year, vehicle or engine under section 206.

(B) Effective upon the date of the enactment of the Clean Air Act Amendments of 1990, it shall be unlawful for any manufacturer of any fuel or fuel additive to first introduce into commerce, or to increase the concentration in use of, any fuel or fuel additive for use by any person in motor vehicles manufactured after model year 1974 which is not substantially similar to any fuel or fuel additive utilized in the certification of any model year 1975, or subsequent model year, vehicle or engine under section 206.

(2) Effective November 30, 1977, it shall be unlawful for any manufacturer of any fuel to introduce into commerce any gasoline which contains a concentration of manganese in excess of .0625 grams per gallon of fuel, except as otherwise provided pursuant to a waiver under paragraph (4).

(3) Any manufacturer of any fuel or fuel additive which prior to March 31, 1977, and after January 1, 1974, first introduced into commerce or increased the concentration in use of a fuel or fuel additive that would otherwise have been prohibited under paragraph (1)(A) if introduced on or after March 31, 1977 shall, not later than September 15, 1978, cease to distribute such fuel or fuel additive in commerce. During the period beginning 180 days after the date of the enactment of this subsection and before September 15, 1978, the Administrator shall prohibit, or restrict the concentration of any fuel additive which he determines will cause or contribute to the failure of an emission control device or system (over the useful life of any vehicle in which such device or system is used) to achieve compliance by the vehicle with the emission standards with respect to which it has been certified under section 206.

(4) The Administrator, upon application of any manufacturer of any fuel or fuel additive, may waive the prohibitions established under paragraph (1) or (3) of this subsection or the limitation specified in paragraph (2) of this section if he determines that the applicant has established that such fuel or fuel additive or a specified concentration thereof, and the emission products of such fuel or additive or specified concentration thereof, will not cause or contribute to a failure of any emission control device or system (over the useful life of any vehicle in which such device or system is used) to achieve compliance by the vehicle with the emission standards with respect to which it has been certified pursuant to section 206. If the Administrator has not acted to grant or deny an application under this paragraph within one hundred and eighty days of receipt of such application, the waiver authorized by this paragraph shall be treated as granted.

(5) No action of the Administrator under this section may be stayed by any court pending judicial review of such action.

(g) MISFUELING.—(1) No person shall introduce, or cause or allow the introduction of, leaded gasoline into any motor vehicle which is labeled “unleaded gasoline only,” which is equipped with a gasoline tank filler inlet designed for the introduction of unleaded gasoline, which is a 1990 or later model year motor vehicle, or which such person knows or should know is a vehicle designed solely for the use of unleaded gasoline.

(2) Beginning October 1, 1993, no person shall introduce or cause or allow the introduction into any motor vehicle of diesel fuel which such person knows or should know contains a concentration of sulfur in excess of 0.05 percent (by weight) or which fails to meet a cetane index minimum of 40 or such equivalent alternative aromatic level as prescribed by the Administrator under subsection (i)(2).

(h) REID VAPOR PRESSURE REQUIREMENTS.—

(1) PROHIBITION.—Not later than 6 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations making it unlawful for any person during the high ozone season (as defined by the Administrator) to sell, offer for sale, dispense, supply, offer for supply, transport, or introduce into commerce gasoline with a Reid Vapor Pressure in excess of 9.0 pounds per square inch (psi). Such regulations shall also establish more stringent Reid Vapor Pressure standards in a nonattainment area as the Administrator finds necessary to generally achieve comparable evaporative emissions (on a per-vehicle basis) in nonattainment areas, taking into consideration the enforceability of such standards, the need of an area for emission control, and economic factors.

(2) ATTAINMENT AREAS.—The regulations under this subsection shall not make it unlawful for any person to sell, offer for supply, transport, or introduce into commerce gasoline with a Reid Vapor Pressure of 9.0 pounds per square inch (psi) or lower in any area designated under section 107 as an attainment area. Notwithstanding the preceding sentence, the Administrator may impose a Reid vapor pressure requirement lower than 9.0 pounds per square inch (psi) in any area, formerly an ozone nonattainment area, which has been redesignated as an attainment area.

(3) EFFECTIVE DATE; ENFORCEMENT.—The regulations under this subsection shall provide that the requirements of this subsection shall take effect not later than the high ozone season for 1992, and shall include such provisions as the Administrator determines are necessary to implement and enforce the requirements of this subsection.

(4) ETHANOL WAIVER.—For fuel blends containing gasoline and 10 percent denatured anhydrous ethanol, the Reid vapor pressure limitation under this subsection shall be one pound per square inch (psi) greater than the applicable Reid vapor pressure limitations established under paragraph (1); Provided, however, That a distributor, blender, marketer,

reseller, carrier, retailer, or wholesale purchaser-consumer shall be deemed to be in full compliance with the provisions of this subsection and the regulations promulgated thereunder if it can demonstrate (by showing receipt of a certification or other evidence acceptable to the Administrator) that—

(A) the gasoline portion of the blend complies with the Reid vapor pressure limitations promulgated pursuant to this subsection;

(B) the ethanol portion of the blend does not exceed its waiver condition under subsection (f)(4); and

(C) no additional alcohol or other additive has been added to increase the Reid Vapor Pressure of the ethanol portion of the blend.

(5) AREAS COVERED.—The provisions of this subsection shall apply only to the 48 contiguous States and the District of Columbia.

(i) SULFUR CONTENT REQUIREMENTS FOR DIESEL FUEL.—(1) Effective October 1, 1993, no person shall manufacture, sell, supply, offer for sale or supply, dispense, transport, or introduce into commerce motor vehicle diesel fuel which contains a concentration of sulfur in excess of 0.05 percent (by weight) or which fails to meet a cetane index minimum of 40.

(2) Not later than 12 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations to implement and enforce the requirements of paragraph (1). The Administrator may require manufacturers and importers of diesel fuel not intended for use in motor vehicles to dye such fuel in a particular manner in order to segregate it from motor vehicle diesel fuel. The Administrator may establish an equivalent alternative aromatic level to the cetane index specification in paragraph (1).

(3) The sulfur content of fuel required to be used in the certification of 1991 through 1993 model year heavy-duty diesel vehicles, and engines shall be 0.10 percent (by weight). The sulfur content and cetane index minimum of fuel required to be used in the certification of 1994 and later model year heavy-duty diesel vehicles and engines shall comply with the regulations promulgated under paragraph (2).

(4) The States of Alaska and Hawaii may be exempted from the requirements of this subsection in the same manner as provided in section 324. The Administrator shall take final action on any petition filed under section 324 or this paragraph for an exemption from the requirements of this subsection, within 12 months from the date of the petition.

(j) LEAD SUBSTITUTE GASOLINE ADDITIVES.—(1) After the date of the enactment of the Clean Air Act Amendments of 1990, any person proposing to register any gasoline additive under subsection (a) or to use any previously registered additive as a lead substitute may also elect to register the additive as a lead substitute gasoline additive for reducing valve seat wear by providing the Administrator with such relevant information regarding product identity and composition as the Administrator deems necessary for carrying

out the responsibilities of paragraph (2) of this subsection (in addition to other information which may be required under subsection (b)).

(2) In addition to the other testing which may be required under subsection (b), in the case of the lead substitute gasoline additives referred to in paragraph (1), the Administrator shall develop and publish a test procedure to determine the additives' effectiveness in reducing valve seat wear and the additives' tendencies to produce engine deposits and other adverse side effects. The test procedures shall be developed in cooperation with the Secretary of Agriculture and with the input of additive manufacturers, engine and engine components manufacturers, and other interested persons. The Administrator shall enter into arrangements with an independent laboratory to conduct tests of each additive using the test procedures developed and published pursuant to this paragraph. The Administrator shall publish the results of the tests by company and additive name in the Federal Register along with, for comparison purposes, the results of applying the same test procedures to gasoline containing 0.1 gram of lead per gallon in lieu of the lead substitute gasoline additive. The Administrator shall not rank or otherwise rate the lead substitute additives. Test procedures shall be established within 1 year after the date of the enactment of the Clean Air Act Amendments of 1990. Additives shall be tested within 18 months of the date of the enactment of the Clean Air Act Amendments of 1990 or 6 months after the lead substitute additives are identified to the Administrator, whichever is later.

(3) The Administrator may impose a user fee to recover the costs of testing of any fuel additive referred to in this subsection. The fee shall be paid by the person proposing to register the fuel additive concerned. Such fee shall not exceed \$20,000 for a single fuel additive.

(4) There are authorized to be appropriated to the Administrator not more than \$1,000,000 for the second full fiscal year after the date of the enactment of the Clean Air Act Amendments of 1990 to establish test procedures and conduct engine tests as provided in this subsection. Not more than \$500,000 per year is authorized to be appropriated for each of the 5 subsequent fiscal years.

(5) Any fees collected under this subsection shall be deposited in a special fund in the United States Treasury for licensing and other services which thereafter shall be available for appropriation, to remain available until expended, to carry out the Agency's activities for which the fees were collected.

(k) REFORMULATED GASOLINE FOR CONVENTIONAL VEHICLES.—

(1) EPA REGULATIONS.—Within 1 year after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations under this section establishing requirements for reformulated gasoline to be used in gasoline-fueled vehicles in specified nonattainment areas. Such regulations shall require the greatest reduction in emissions of ozone forming volatile organic compounds (during the high ozone season)

and emissions of toxic air pollutants (during the entire year) achievable through the reformulation of conventional gasoline, taking into consideration the cost of achieving such emission reductions, any nonair-quality and other air-quality related health and environmental impacts and energy requirements.

(2) GENERAL REQUIREMENTS.—The regulations referred to in paragraph (1) shall require that reformulated gasoline comply with paragraph (3) and with each of the following requirements (subject to paragraph (7)):

(A) NO_x EMISSIONS.—The emissions of oxides of nitrogen (NO_x) from baseline vehicles when using the reformulated gasoline shall be no greater than the level of such emissions from such vehicles when using baseline gasoline. If the Administrator determines that compliance with the limitation on emissions of oxides of nitrogen under the preceding sentence is technically infeasible, considering the other requirements applicable under this subsection to such gasoline, the Administrator may, as appropriate to ensure compliance with this subparagraph, adjust (or waive entirely), any other requirements of this paragraph (including the oxygen content requirement contained in subparagraph (B)) or any requirements applicable under paragraph (3)(A).

(B) OXYGEN CONTENT.—The oxygen content of the gasoline shall equal or exceed 2.0 percent by weight (subject to a testing tolerance established by the Administrator) except as otherwise required by this Act. The Administrator may waive, in whole or in part, the application of this subparagraph for any ozone nonattainment area upon a determination by the Administrator that compliance with such requirement would prevent or interfere with the attainment by the area of a national primary ambient air quality standard.

(C) BENZENE CONTENT.—The benzene content of the gasoline shall not exceed 1.0 percent by volume.

(D) HEAVY METALS.—The gasoline shall have no heavy metals, including lead or manganese. The Administrator may waive the prohibition contained in this subparagraph for a heavy metal (other than lead) if the Administrator determines that addition of the heavy metal to the gasoline will not increase, on an aggregate mass or cancer-risk basis, toxic air pollutant emissions from motor vehicles.

(3) MORE STRINGENT OF FORMULA OR PERFORMANCE STANDARDS.—The regulations referred to in paragraph (1) shall require compliance with the more stringent of either the requirements set forth in subparagraph (A) or the requirements of subparagraph (B) of this paragraph. For purposes of determining the more stringent provision, clause (i) and clause (ii) of subparagraph (B) shall be considered independently.

(A) FORMULA.—

(i) **BENZENE.**—The benzene content of the reformulated gasoline shall not exceed 1.0 percent by volume.

(ii) **AROMATICS.**—The aromatic hydrocarbon content of the reformulated gasoline shall not exceed 25 percent by volume.

(iii) **LEAD.**—The reformulated gasoline shall have no lead content.

(iv) **DETERGENTS.**—The reformulated gasoline shall contain additives to prevent the accumulation of deposits in engines or vehicle fuel supply systems.

(v) **OXYGEN CONTENT.**—The oxygen content of the reformulated gasoline shall equal or exceed 2.0 percent by weight (subject to a testing tolerance established by the Administrator) except as otherwise required by this Act.

(B) PERFORMANCE STANDARD.—

(i) **VOC EMISSIONS.**—During the high ozone season (as defined by the Administrator), the aggregate emissions of ozone forming volatile organic compounds from baseline vehicles when using the reformulated gasoline shall be 15 percent below the aggregate emissions of ozone forming volatile organic compounds from such vehicles when using baseline gasoline. Effective in calendar year 2000 and thereafter, 25 percent shall be substituted for 15 percent in applying this clause, except that the Administrator may adjust such 25 percent requirement to provide for a lesser or greater reduction based on technological feasibility, considering the cost of achieving such reductions in VOC emissions. No such adjustment shall provide for less than a 20 percent reduction below the aggregate emissions of such air pollutants from such vehicles when using baseline gasoline. The reductions required under this clause shall be on a mass basis.

(ii) **TOXICS.**—During the entire year, the aggregate emissions of toxic air pollutants from baseline vehicles when using the reformulated gasoline shall be 15 percent below the aggregate emissions of toxic air pollutants from such vehicles when using baseline gasoline. Effective in calendar year 2000 and thereafter, 25 percent shall be substituted for 15 percent in applying this clause, except that the Administrator may adjust such 25 percent requirement to provide for a lesser or greater reduction based on technological feasibility, considering the cost of achieving such reductions in toxic air pollutants. No such adjustment shall provide for less than a 20 percent reduction below the aggregate emissions of such air pollutants from such vehicles when using baseline gasoline. The reductions required under this clause shall be on a mass basis.

Any reduction greater than a specific percentage reduction required under this subparagraph shall be treated as satisfying such percentage reduction requirement.

(4) CERTIFICATION PROCEDURES.—

(A) REGULATIONS.—The regulations under this subsection shall include procedures under which the Administrator shall certify reformulated gasoline as complying with the requirements established pursuant to this subsection. Under such regulations, the Administrator shall establish procedures for any person to petition the Administrator to certify a fuel formulation, or slate of fuel formulations. Such procedures shall further require that the Administrator shall approve or deny such petition within 180 days of receipt. If the Administrator fails to act within such 180-day period, the fuel shall be deemed certified until the Administrator completes action on the petition.

(B) CERTIFICATION; EQUIVALENCY.—Administrator shall certify a fuel formulation or slate of fuel formulations as complying with this subsection if such fuel or fuels—

(i) comply with the requirements of paragraph (2), and

(ii) achieve equivalent or greater reductions in emissions of ozone forming volatile organic compounds and emissions of toxic air pollutants than are achieved by a reformulated gasoline meeting the applicable requirements of paragraph (3).

(C) EPA DETERMINATION OF EMISSIONS LEVEL.—Within 1 year after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall determine the level of emissions of ozone forming volatile organic compounds and emissions of toxic air pollutants emitted by baseline vehicles when operating on baseline gasoline. For purposes of this subsection, within 1 year after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall, by rule, determine appropriate measures of, and methodology for, ascertaining the emissions of air pollutants (including calculations, equipment, and testing tolerances).

(5) PROHIBITION.—Effective beginning January 1, 1995, each of the following shall be a violation of this subsection:

(A) The sale or dispensing by any person of conventional gasoline to ultimate consumers in any covered area.

(B) The sale or dispensing by any refiner, blender, importer, or marketer of conventional gasoline for resale in any covered area, without (i) segregating such gasoline from reformulated gasoline, and (ii) clearly marking such conventional gasoline as “conventional gasoline, not for sale to ultimate consumer in a covered area.”

Any refiner, blender, importer or marketer who purchases property segregated and marked conventional gasoline, and thereafter labels, represents, or wholesales such gasoline as reformulated gasoline shall also be in

violation of this subsection. The Administrator may impose sampling, testing, and recordkeeping requirements upon any refiner, blender, importer, or marketer to prevent violations of this section.

(6) OPT-IN AREAS.—(A) Upon the application of the Governor of a State, the Administrator shall apply the prohibition set forth in paragraph (5) in any area in the State classified under subpart 2 of part D of title I as a Marginal, Moderate, Serious, or Severe Area (without regard to whether or not the 1980 population of the area exceeds 250,000). In any such case, the Administrator shall establish an effective date for such prohibition as he deems appropriate, not later than January 1, 1995, or 1 year after such application is received, whichever is later. The Administrator shall publish such application in the Federal Register upon receipt.

(B) If the Administrator determines, on the Administrator's own motion or on petition of any person, after consultation with the Secretary of Energy, that there is insufficient domestic capacity to produce gasoline certified under this subsection, the Administrator shall, by rule, extend the effective date of such prohibition in Marginal, Moderate, Serious, or Severe Areas referred to in subparagraph (A) for one additional year, and may, by rule, renew such extension for 2 additional one-year periods. The Administrator shall act on any petition submitted under this paragraph within 6 months after receipt of the petition. The Administrator shall issue such extensions for areas with a lower ozone classification before issuing any such extension for areas with a higher classification.

(7) CREDITS.—(A) The regulations promulgated under this subsection shall provide for the granting of an appropriate amount of credits to a person who refines, blends, or imports and certifies a gasoline or slate of gasoline that—

(i) has an oxygen content (by weight) that exceeds the minimum oxygen content specified in paragraph (2);

(ii) has an aromatic hydrocarbon content (by volume) that is less than the maximum aromatic hydrocarbon content required to comply with paragraph (3); or

(iii) has a benzene content (by volume) that is less than the maximum benzene content specified in paragraph (2).

(B) The regulations described in subparagraph (A) shall also provide that a person who is granted credits may use such credits, or transfer all or a portion of such credits to another person for use within the same nonattainment area, for the purpose of complying with this subsection.

(C) The regulations promulgated under subparagraphs (A) and (B) shall ensure the enforcement of the requirements for the issuance, application, and transfer of the credits. Such regulations shall prohibit the granting or transfer of such credits for use with respect

to any gasoline in a nonattainment area, to the extent the use of such credits would result in any of the following:

(i) An average gasoline aromatic hydrocarbon content (by volume) for the nonattainment (taking into account all gasoline sold for use in conventional gasoline-fueled vehicles in the nonattainment area) higher than the average fuel aromatic hydrocarbon content (by volume) that would occur in the absence of using any such credits.

(ii) An average gasoline oxygen content (by weight) for the nonattainment area (taking into account all gasoline sold for use in conventional gasoline-fueled vehicles in the nonattainment area) lower than the average gasoline oxygen content (by weight) that would occur in the absence of using any such credits.

(iii) An average benzene content (by volume) for the nonattainment area (taking into account all gasoline sold for use in conventional gasoline-fueled vehicles in the nonattainment area) higher than the average benzene content (by volume) that would occur in the absence of using any such credits.

(8) ANTI-DUMPING RULES.—

(A) **IN GENERAL.**—Within 1 year after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations applicable to each refiner, blender, or importer of gasoline ensuring that gasoline sold or introduced into commerce by such refiner, blender, or importer (other than reformulated gasoline subject to the requirements of paragraph (1)) does not result in average per gallon emissions (measured on a mass basis) of (i) volatile organic compounds, (ii) oxides of nitrogen, (iii) carbon monoxide, and (iv) toxic air pollutants in excess of such emissions of such pollutants attributable to gasoline sold or introduced into commerce in calendar year 1990 by that refiner, blender, or importer. Such regulations shall take effect beginning January 1, 1995.

(B) **ADJUSTMENTS.**—In evaluating compliance with the requirements of subparagraph (A), the Administrator shall make appropriate adjustments to insure that no credit is provided for improvement in motor vehicle emissions control in motor vehicles sold after the calendar year 1990.

(C) **COMPLIANCE DETERMINED FOR EACH POLLUTANT INDEPENDENTLY.**—In determining whether there is an increase in emissions in violation of the prohibition contained in subparagraph (A) the Administrator shall consider an increase in each air pollutant referred to in clauses (i) through (iv) as a separate violation of such prohibition, except that the Administrator shall promulgate regulations to provide that any increase in emissions of oxides of nitrogen resulting from adding oxygenates to gasoline may be offset by an equivalent or greater reduction (on a mass basis) in emissions of

volatile organic compounds, carbon monoxide, or toxic air pollutants, or any combination of the foregoing.

(D) COMPLIANCE PERIOD.—The Administrator shall promulgate an appropriate compliance period or appropriate compliance periods to be used for assessing compliance with the prohibition contained in subparagraph (A).

(E) BASELINE FOR DETERMINING COMPLIANCE.—If the Administrator determines that no adequate and reliable data exists regarding the composition of gasoline sold or introduced into commerce by a refiner, blender, or importer in calendar year 1990, for such refiner, blender, or importer, baseline gasoline shall be substituted for such 1990 gasoline in determining compliance with subparagraph (A).

(9) EMISSIONS FROM ENTIRE VEHICLE.—In applying the requirements of this subsection, the Administrator shall take into account emissions from the entire motor vehicle, including evaporative, running, refueling, and exhaust emissions.

(10) DEFINITIONS.—For purposes of this subsection—

(A) BASELINE VEHICLES.—The term “baseline vehicles” mean[s] representative model year 1990 vehicles.

(B) BASELINE GASOLINE.—

(i) SUMMERTIME.—The term “baseline gasoline” means in the case of gasoline sold during the high ozone period (as defined by the Administrator) a gasoline which meets the following specifications:

BASELINE GASOLINE FUEL PROPERTIES

API Gravity	57.4
Sulfur, ppm	339
Benzene, (%)	1.53
RVP, psi	8.7
Octane, R+M/2	87.3
IBP, F	91
10 (%) F	128
50 (%) F	218
90 (%) F	330
End Point, F	415
Aromatics, (%)	32.0
Olefins, (%)	9.2
Saturates, (%)	58.8

(ii) WINTERTIME.—The Administrator shall establish the specifications of “baseline gasoline” for gasoline sold at times other than the high ozone period (as defined by the Administrator). Such specifications shall be the specifications of 1990 industry average gasoline sold during such period.

(C) TOXIC AIR POLLUTANTS.—The term “toxic air pollutants” means the aggregate emissions of the following:

Benzene

1,3 Butadiene

(POM)

Polycyclic organic matter

Acetaldehyde

Formaldehyde.

(D) COVERED AREA.—The 9 ozone nonattainment areas having a 1980 population in excess of 250,000 and having the highest ozone design value during the period 1987 through 1989 shall be “covered areas” for purposes of this subsection. Effective one year after the reclassification of any ozone nonattainment area as a Severe ozone nonattainment area under section 181(b), such Severe area shall also be a “covered area” for purposes of this subsection.

(E) REFORMULATED GASOLINE.—The term “reformulated gasoline” means any gasoline which is certified by the Administrator under this section as complying with this subsection.

(F) CONVENTIONAL GASOLINE.—The term “conventional gasoline” means any gasoline which does not meet specifications set by a certification under this subsection.

(I) DETERGENTS.—Effective beginning January 1, 1995, no person may sell or dispense to an ultimate consumer in the United States, and no refiner or marketer may directly or indirectly sell or dispense to persons who sell or dispense to ultimate consumers in the United States any gasoline which does not contain additives to prevent the accumulation of deposits in engines or fuel supply systems. Not later than 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate a rule establishing specifications for such additives.

(m) OXYGENATED FUELS.—

(1) PLAN REVISIONS FOR CO NONATTAINMENT AREAS.—(A) Each State in which there is located all or part of an area which is designated under title I as a nonattainment area for carbon monoxide and which has a carbon monoxide design value of 9.5 parts per million (ppm) or above based on data for the 2-year period of 1988 and 1989 and calculated according to the most recent interpretation methodology issued by the Administrator prior to the enactment of the Clean Air Act Amendments of 1990 shall submit to the Administrator a State implementation plan revision under section 110 and part D of title I for such area which shall contain the provisions specified under this subsection regarding oxygenated gasoline.

(B) A plan revision which contains such provisions shall also be submitted by each State in which there is located any area which, for any 2-year period after 1989 has a carbon monoxide design value of

9.5 ppm or above. The revision shall be submitted within 18 months after such 2-year period.

(2) OXYGENATED GASOLINE IN CO NONATTAINMENT AREAS.—Each plan revision under this subsection shall contain provisions to require that any gasoline sold, or dispensed, to the ultimate consumer in the carbon monoxide nonattainment area or sold or dispensed directly or indirectly by fuel refiners or marketers to persons who sell or dispense to ultimate consumers, in the larger of—

(A) the Consolidated Metropolitan Statistical Area (CMSA) in which the area is located, or

(B) if the area is not located in a CMSA, the Metropolitan Statistical Area in which the area is located,

be blended, during the portion of the year in which the area is prone to high ambient concentrations of carbon monoxide to contain not less than 2.7 percent oxygen by weight (subject to a testing tolerance established by the Administrator). The portion of the year in which the area is prone to high ambient concentrations of carbon monoxide shall be as determined by the Administrator, but shall not be less than 4 months. At the request of a State with respect to any area designated as nonattainment for carbon monoxide, the Administrator may reduce the period specified in the preceding sentence if the State can demonstrate that because of meteorological conditions, a reduced period will assure that there will be no exceedances of the carbon monoxide standard outside of such reduced period. For areas with a carbon monoxide design value of 9.5 ppm or more of the date of enactment of the Clean Air Act Amendments of 1990, the revision shall provide that such requirement shall provide that such requirement shall take effect no later than November 1, 1992 (or at such other date during 1992 as the Administrator establishes under the preceding provisions of this paragraph). For other areas, the revision shall provide that such requirement shall take effect no later than November 1 of the third year after the last year of the applicable 2-year period referred to in paragraph (1) (or at such other date during such third year as the Administrator establishes under the preceding provisions of this paragraph) and shall include a program for implementation and enforcement of the requirement consistent with guidance to be issued by the Administrator.

(3) WAIVERS.—(A) The Administrator shall waive, in whole or in part, the requirements of paragraph (2) upon a demonstration by the State to the satisfaction of the Administrator that the use of oxygenated gasoline would prevent or interfere with the attainment by the area of a national primary ambient air quality standard (or a State or local ambient air quality standard) for any air pollutant other than carbon monoxide.

(B) The Administrator shall, upon demonstration by the State satisfactory to the Administrator, waive the requirement of paragraph (2) where the Administrator determines that mobile sources of

carbon monoxide do not contribute significantly to carbon monoxide levels in an area.

(C)(i) Any person may petition the Administrator to make a finding that there is, or is likely to be, for any area, an inadequate domestic supply of, or distribution capacity for, oxygenated gasoline meeting the requirements of paragraph (2) or fuel additives (oxygenates) necessary to meet such requirements. The Administrator shall act on such petition within 6 months after receipt of the petition.

(ii) If the Administrator determines, in response to a petition under clause (i), that there is an inadequate supply or capacity described in clause (i), the Administrator shall delay the effective date of paragraph (2) for 1 year. Upon petition, the Administrator may extend such effective date for one additional year. No partial delay or lesser waiver may be granted under this clause.

(iii) In granting waivers under this subparagraph the Administrator shall consider distribution capacity separately from the adequacy of domestic supply and shall grant such waivers in such manner as will assure that, if supplies of oxygenated gasoline are limited, areas having the highest design value for carbon monoxide will have a priority in obtaining oxygenated gasoline which meets the requirements of paragraph (2).

(iv) As used in this subparagraph, the term distribution capacity includes capacity for transportation, storage, and blending.

(4) FUEL DISPENSING SYSTEMS.—Any person selling oxygenated gasoline at retail pursuant to this subsection shall be required under regulations promulgated by the Administrator to label the fuel dispensing system with a notice that the gasoline is oxygenated and will reduce the carbon monoxide emissions from the motor vehicle.

(5) GUIDELINES FOR CREDIT.—The Administrator shall promulgate guidelines, within 9 months after the date of the enactment of the Clean Air Act Amendments of 1990, allowing the use of marketable oxygen credits from gasolines during that portion of the year specified in paragraph (2) with higher oxygen content than required to offset the sale or use of gasoline with a lower oxygen content than required. No credits may be transferred between nonattainment areas.

(6) ATTAINMENT AREAS.—Nothing in this subsection shall be interpreted as requiring an oxygenated gasoline program in an area which is in attainment for carbon monoxide, except that in a carbon monoxide nonattainment area which is redesignated as attainment for carbon monoxide, the requirements of this subsection shall remain in effect to the extent such program is necessary to maintain such standard thereafter in the area.

(7) FAILURE TO ATTAIN CO STANDARD.—If the Administrator determines under section 186(b)(2) that the national primary ambient air quality standard for carbon monoxide has not been attained in a Serious Area by the applicable attainment date, the State shall submit a plan revision for the area within 9 months after the date of such determination. The plan revision shall provide that the minimum oxygen content of gasoline referred to in paragraph (2) shall be 3.1 percent by weight unless such requirement is waived in accordance with the provisions of this subsection.

(n) PROHIBITION ON LEADED GASOLINE FOR HIGHWAY USE.—After December 31, 1995, it shall be unlawful for any person to sell, offer for sale, supply, offer for supply, dispense, transport, or introduce into commerce, for use as fuel in any motor vehicle (as defined in section 219(2)) any gasoline which contains lead or lead additives.

(o) FUEL AND FUEL ADDITIVE IMPORTERS AND IMPORTATION.—For the purposes of this section, the term “manufacturer” includes an importer and the term “manufacture” includes importation.

¶ 2213]

Sec. 213. NONROAD ENGINES AND VEHICLES.

(a) EMISSIONS STANDARDS.—(1) The Administrator shall conduct a study of emissions from nonroad engines and nonroad vehicles (other than locomotives or engines used in locomotives) to determine if such emissions cause, or significantly contribute to, air pollution which may reasonably be anticipated to endanger public health or welfare. Such study shall be completed within 12 months of the date of the enactment of the Clean Air Act Amendments of 1990.

(2) After notice and opportunity for public hearing, the Administrator shall determine within 12 months after completion of the study under paragraph (1), based upon the results of such study, whether emissions of carbon monoxide, oxides of nitrogen, and volatile organic compounds from new and existing nonroad engines or nonroad vehicles (other than locomotives or engines used in locomotives) are significant contributors to ozone or carbon monoxide concentrations in more than 1 area which has failed to attain the national ambient air quality standards for ozone or carbon monoxide. Such determination shall be included in the regulations under paragraph (3).

(3) If the Administrator makes an affirmative determination under paragraph (2) the Administrator shall, within 12 months after completion of the study under paragraph (1), promulgate (and from time to time revise) regulations containing standards applicable to emissions from those classes or categories of new nonroad engines and new nonroad vehicles (other than locomotives or engines used in locomotives) which in the Administrator’s judgment cause, or contribute to, such air pollution. Such standards shall achieve the greatest degree of emission reduction achievable through the application of technology which the Administrator determines will be available for the engines or vehicles to which such

standards apply, giving appropriate consideration to the cost of applying such technology within the period of time available to manufacturers and to noise, energy, and safety factors associated with the application of such technology. In determining what degree of reduction will be available, the Administrator shall first consider standards equivalent in stringency to standards for comparable motor vehicles or engines (if any) regulated under section 202, taking into account the technological feasibility, costs, safety, noise, and energy factors associated with achieving, as appropriate, standards of such stringency and lead time. The regulations shall apply to the useful life of the engines or vehicles (as determined by the Administrator).

(4) If the Administrator determines that any emissions not referred to in paragraph (2) from new nonroad engines or vehicles significantly contribute to air pollution which may reasonably be anticipated to endanger public health or welfare, the Administrator may promulgate (and from time to time revise) such regulations as the Administrator deems appropriate containing standards applicable to emissions from those classes or categories of new nonroad engines and new nonroad vehicles (other than locomotives or engines used in locomotives) which in the Administrator's judgment cause, or contribute to, such air pollution, taking into account costs, noise, safety, and energy factors associated with the application of technology which the Administrator determines will be available for the engines and vehicles to which such standards apply. The regulations shall apply to the useful life of the engines or vehicles (as determined by the Administrator).

(5) Within 5 years after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations containing standards applicable to emissions from new locomotives and new engines used in locomotives. Such standards shall achieve the greatest degree of emission reduction achievable through the application of technology which the Administrator determines will be available for the locomotives or engines to which such standards apply, giving appropriate consideration to the cost of applying such technology within the period of time available to manufacturers and to noise, energy, and safety factors associated with the application of such technology.

(b) **EFFECTIVE DATE.**—Standards under this section shall take effect at the earliest possible date considering the lead time necessary to permit the development and application of the requisite technology, giving appropriate consideration to the cost of compliance within such period and energy and safety.

(c) **SAFE CONTROLS.**—Effective with respect to new engines or vehicles to which standards under this section apply, no emission control device, system, or element of design shall be used in such a new nonroad engine or new nonroad vehicle for purposes of complying with such standards if such device, system, or element of design will cause or contribute to an unreasonable risk to public health, welfare, or safety in its operation or function. In determining

whether an unreasonable risk exists, the Administrator shall consider factors including those described in section 202(a)(4)(B).

(d) ENFORCEMENT.—The standards under this section shall be subject to sections 206, 207, 208, and 209, with such modifications of the applicable regulations implementing such sections as the Administrator deems appropriate, and shall be enforced in the same manner as standards prescribed under section 202. The Administrator shall revise or promulgate regulations as may be necessary to determine compliance with, and enforce, standards in effect under this section.

[¶ 2214]

Sec. 214. STUDY OF PARTICULATE EMISSIONS FROM MOTOR VEHICLES

(a)(1) The Administrator shall conduct a study concerning the effects on health and welfare of particulate emissions from motor vehicles or motor vehicle engines to which section 202 applies. Such study shall characterize and quantify such emissions and analyze the relationship of such emissions to various fuels and fuel additives.

(2) The study shall also include an analysis of particulate emissions from mobile sources which are not related to engine emissions (including, but not limited to tire debris, and asbestos from brake lining).

(b) The Administrator shall report to the Congress the findings and results of the study conducted under subsection (a) not later than two years after the date of the enactment of the Clean Air Act Amendments of 1977. Such report shall also include recommendations for standards or methods to regulate particulate emissions described in paragraph (2) of subsection (a).

[¶ 2215]

Sec. 215. HIGH ALTITUDE PERFORMANCE ADJUSTMENTS

(a)(1) Any action taken with respect to any element of design installed on or in a motor vehicle or motor vehicle engine in compliance with regulations under this title (including any alteration or adjustment of such element), shall be treated as not in violation of section 203(a) if such action is performed in accordance with high altitude adjustment instructions provided by the manufacturer under subsection (b) and approved by the Administrator.

(2) If the Administrator finds that adjustments or modifications made pursuant to instructions of the manufacturer under paragraph (1) will not insure emission control performance with respect to each standard under section 202 at least equivalent to that which would result if no such adjustments or modifications were made, he shall disapprove such instructions. Such finding shall be based upon minimum engineering evaluations consistent with good engineering practice.

(b)(1) Instructions respecting each class or category of vehicles or engines to which this title applies providing for such vehicle and engine adjustments and modifications as may be necessary to insure emission control performance at different altitudes shall be submitted by the manufacturer to the Administrator pursuant to regulations promulgated by the Administrator.

(2) Any knowing violation by a manufacturer of requirements of the Administrator under paragraph (1) shall be treated as a violation by such manufacturer of section 203(a)(3) for purposes of the penalties contained in section 205.

(3) Such instructions shall provide, in addition to other adjustments, for adjustments for vehicles moving from high altitude areas to low altitude areas after the initial registration of such vehicles.

(c) No instructions under this section respecting adjustments or modifications may require the use of any manufacturer parts (as defined in section 203(a)) unless the manufacturer demonstrates to the satisfaction of the Administrator that the use of such manufacturer parts is necessary to insure emission control performance.

(d) Before January 1, 1981 the authority provided by this section shall be available in any high altitude State (as determined under regulations of the Administrator under regulations promulgated before the date of the enactment of this Act) but after December 31, 1980, such authority shall be available only in any such State in which an inspection and maintenance program for the testing of motor vehicle emissions has been instituted for the portions of the State where any national ambient air quality standard for auto-related pollutants has not been attained.

(e) **HIGH ALTITUDE TESTING.**—(1) The Administrator shall promptly establish at least one testing center (in addition to the testing centers existing on the date of the enactment of the Clean Air Act Amendments of 1990) located at a site that represents high altitude conditions, to ascertain in a reasonable manner whether, when in actual use throughout their useful life (as determined under section 202(d)), each class or category of vehicle and engines to which regulations under section 202 apply conforms to the emissions standards established by such regulations. For purposes of this subsection, the term “high altitude conditions” refers to high altitude as defined in regulations of the Administrator in effect as of the date of the enactment of the Clean Air Act Amendments of 1990.

(2) The Administrator, in cooperation with the Secretary of Energy and the Administrator of the Urban Mass Transportation Administration, and such other agencies as the Administrator deems appropriate, shall establish a research and technology assessment center to provide for the development and evaluation of less-polluting heavy-duty engines and fuels for use in buses, heavy-duty trucks, and non-road engines and vehicles, which shall be located at a high-altitude site that represents high-altitude conditions. In establishing and funding such a center, the Administrator shall give preference to proposals which provide for local cost-sharing of facilities and recovery of costs of operation through utilization of such facility for the purposes of this section.

(3) The Administrator shall designate at least one center at high-altitude conditions to provide research on after-market emission components, dual-fueled vehicles and conversion kits, the effects of tampering on emissions equipment, testing of alternate fuels and conversion kits,

and the development of curricula, training courses, and materials to maximize the effectiveness of inspection and maintenance programs as they relate to promoting effective control of vehicle emissions at high-altitude elevations. Preference shall be given to existing vehicle emissions testing and research centers that have established reputations for vehicle emissions research and development and training, and that possess in-house Federal Test Procedure capacity.

[¶ 2216]

Sec. 216. DEFINITIONS FOR PART A

As used in this part—

(1) The term “manufacturer” as used in sections 202, 203, 206, 207, and 208 means any person engaged in the manufacturing or assembling of new motor vehicles, new motor vehicle engines, new nonroad vehicles or new nonroad engines, or importing such vehicles or engines for resale, or who acts for and is under the control of any such person in connection with the distribution of new motor vehicles, new motor vehicle engines, new nonroad vehicles or new nonroad engines, but shall not include any dealer with respect to new motor vehicles, new motor vehicle engines, new nonroad vehicles or new nonroad engines received by him in commerce.

(2) The term “motor vehicle” means any self-propelled vehicle designed for transporting persons or property on a street or highway.

(3) Except with respect to vehicles or engines imported or offered for importation, the term “new motor vehicle” means a motor vehicle the equitable or legal title to which has never been transferred to an ultimate purchaser; and the term “new motor vehicle engine” means an engine in a new motor vehicle or a motor vehicle engine the equitable or legal title to which has never been transferred to the ultimate purchaser; and with respect to imported vehicles or engines, such terms mean a motor vehicle and engine, respectively manufactured after the effective date of a regulation issued under section 202 which is applicable to such vehicle or engine (or which would be applicable to such vehicle or engine had it been manufactured for importation into the United States).

(4) The term “dealer” means any person who is engaged in the sale or the distribution of new motor vehicles or new motor vehicle engines to the ultimate purchaser.

(5) The term “ultimate purchaser” means, with respect to any new motor vehicle or new motor vehicle engine, the first person who in good faith purchases such new motor vehicle or new engine for purposes other than resale.

(6) The term “commerce” means (A) commerce between any place in any State and any place outside thereof; and (B) commerce wholly within the District of Columbia.

(7) **VEHICLE CURB WEIGHT, GROSS VEHICLE WEIGHT RATING, LIGHT-DUTY TRUCK, LIGHT-DUTY VEHICLE, AND LOADED VEHICLE WEIGHT.**—The terms “vehicle curb weight”, “gross vehicle weight rating” (GVWR), “light-duty truck” (LDT), light-duty vehicle, and “loaded vehicle weight” (LVW) have the meaning provided in regulations promulgated by the Administrator and in effect as of the enactment of the Clean Air Act Amendments of 1990. The abbreviations in parentheses corresponding to any term referred to in this paragraph shall have the same meaning as the corresponding term.

(8) **TEST WEIGHT.**—The term “test weight” and the abbreviation “tw” mean the vehicle curb weight added to the gross vehicle weight rating (GVWR) and divided by 2.

(9) **MOTOR VEHICLE OR ENGINE PART MANUFACTURER.**—The term “motor vehicle or engine part manufacturer” as used in sections 207 and 208 means any person engaged in the manufacturing, assembling or rebuilding of any device, system, part, component or element of design which is installed in or on motor vehicles or motor vehicle engines.

(10) **NONROAD ENGINE.**—The term “nonroad engine” means an internal combustion engine (including the fuel system) that is not used in a motor vehicle or a vehicle used solely for competition, or that is not subject to standards promulgated under section 111 or section 202.

(11) **NONROAD VEHICLE.**—The term “nonroad vehicle” means a vehicle that is powered by a nonroad engine and that is not a motor vehicle or a vehicle used solely for competition.

[¶ 2217]

Sec. 217. MOTOR VEHICLE COMPLIANCE PROGRAM FEES.

(a) **FEE COLLECTION.**—Consistent with section 9701 of title 31, United States Code, the Administrator may promulgate (and from time to time revise) regulations establishing fees to recover all reasonable costs to the Administrator associated with—

- (1) new vehicle or engine certification under section 206(a) or part C,
- (2) new vehicle or engine compliance monitoring and testing under section 206(b) or part C, and
- (3) in-use vehicle or engine compliance monitoring and testing under section 207(c) or part C.

The Administrator may establish for all foreign and domestic manufacturers a fee schedule based on such factors as the Administrator finds appropriate and equitable and nondiscriminatory, including the number of vehicles or engines produced under a certificate of conformity. In the case of heavy-duty engine and vehicle manufacturers, such fees shall not exceed a reasonable amount to recover an appropriate portion of such reasonable costs.

(b) **SPECIAL TREASURY FUND.**—Any fees collected under this section shall be deposited in a special fund in the United States Treasury for licensing and other services which thereafter shall be available for appropriation, to remain

available until expended, to carry out the Agency's activities for which the fees were collected.

(c) **LIMITATION ON FUND USE.**—Moneys in the special fund referred to in subsection (b) shall not be used until after the first fiscal year commencing after the first July 1 when fees are paid into the fund.

(d) **ADMINISTRATOR'S TESTING AUTHORITY.**—Nothing in this subsection shall be construed to limit the Administrator's authority to require manufacturer or confirmatory testing as provided in this part.

¶ 2218]

Sec. 218. PROHIBITION ON PRODUCTION OF ENGINES REQUIRING LEADED GASOLINE

The Administrator shall promulgate regulations applicable to motor vehicle engines and nonroad engines manufactured after model year 1992 that prohibit the manufacture, sale, or introduction into commerce of any engine that requires leaded gasoline.

¶ 2219]

Sec. 219. URBAN BUS STANDARDS

(a) **STANDARDS FOR MODEL YEARS AFTER 1993.**—Not later than January 1, 1992, the Administrator shall promulgate regulations under section 202(a) applicable to urban buses for the model year 1994 and thereafter. Such standards shall be based on the best technology that can reasonably be anticipated to be available at the time such measures are to be implemented, taking costs, safety, energy, lead time, and other relevant factors into account. Such regulations shall require that such urban buses comply with the provisions of subsection (b) of this section (and subsection (c) of this subsection, if applicable) in addition to compliance with the standards applicable under section 202(a) for heavy-duty vehicles of the same type and model year.

(b) **PM STANDARD.**—

(1) **50 PERCENT REDUCTION.**—The standards under section 202(a) applicable to urban buses shall require that, effective for the model year 1994 and thereafter, emissions of particulate matter (PM) from urban buses shall not exceed 50 percent of the emissions of particulate matter (PM) allowed under the emission standard applicable under section 202(a) as of the date of the enactment of the Clean Air Act Amendments of 1990 for particulate matter (PM) in the case of heavy-duty diesel vehicles and engines manufactured in the model year 1994.

(2) **REVISED REDUCTION.**—The Administrator shall increase the level of emissions of particulate matter allowed under the standard referred to in paragraph (1) if the Administrator determines that the 50 percent reduction referred to in paragraph (1) is not technologically achievable, taking into account durability, costs, lead time, safety, and other relevant factors. The Administrator may not increase such level of emissions above 70 percent of the emissions of particulate matter (PM) allowed under the emission standard applicable under section 202(a) as of the date of the

enactment of the Clean Air Act Amendments of 1990 for particulate matter (PM) in the case of heavy-duty diesel vehicles and engines manufactured in the model year 1994.

(3) DETERMINATION AS PART OF RULE.—As part of the rulemaking under subsection (a), the Administrator shall make a determination as to whether the 50 percent reduction referred to in paragraph (1) is technologically achievable, taking into account durability, costs, lead time, safety, and other relevant factors.

(c) LOW-POLLUTING FUEL REQUIREMENT.—

(1) ANNUAL TESTING.—Beginning with model year 1994 buses, the Administrator shall conduct annual tests of a representative sample of operating urban buses subject to the particulate matter (PM) standard applicable pursuant to subsection (b) to determine whether such buses comply with such standard in use over their full useful life.

(2) PROMULGATION OF ADDITIONAL LOW-POLLUTING FUEL REQUIREMENT.—(A) If the Administrator determines, based on the testing under paragraph (1), that urban buses subject to the particulate matter (PM) standard applicable pursuant to subsection (b) do not comply with such standard in use over their full useful life, he shall revise the standards applicable to such buses to require (in addition to compliance with the PM standard applicable pursuant to subsection (b)) that all new urban buses purchased or placed into service by owners or operators of urban buses in all metropolitan statistical areas or consolidated metropolitan statistical areas with a 1980 population of 750,000 or more shall be capable of operating, and shall be exclusively operated, on low-polluting fuels. The Administrator shall establish the pass-fail rate for purposes of testing under this subparagraph.

(B) The Administrator shall promulgate a schedule phasing in any low-polluting fuel requirement established pursuant to this paragraph to an increasing percentage of new urban buses purchased or placed into service in each of the first 5 model years commencing 3 years after the determination under subparagraph (A). Under such schedule 100 percent of new urban buses placed into service in the fifth model year commencing 3 years after the determination under subparagraph (A) shall comply with the low-polluting fuel requirement established pursuant to this paragraph.

(C) The Administrator may extend the requirements of this paragraph to metropolitan statistical areas or consolidated metropolitan statistical areas with a 1980 population of less than 750,000, if the Administrator determines that a significant benefit to public health could be expected to result from such extension.

(d) RETROFIT REQUIREMENTS.—Not later than 12 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations under section 202(a) requiring that urban buses which—

(1) are operating in areas referred to in subparagraph (A) of subsection (c)(2) (or subparagraph (C) of subsection (c)(2) if the Administrator has taken action under that subparagraph);

(2) were not subject to standards in effect under the regulations under subsection (a); and

(3) have their engines replaced or rebuilt after January 1, 1995, shall comply with an emissions standard or emissions control technology requirement established by the Administrator in such regulations. Such emissions standard or emissions control technology requirement shall reflect the best retrofit technology and maintenance practices reasonably achievable.

(e) PROCEDURES FOR ADMINISTRATION AND ENFORCEMENT.—The Administrator shall establish, within 18 months after the enactment of the Clean Air Act Amendments of 1990, and in accordance with section 206(h), procedures for the administration and enforcement of standards for buses subject to standards under this section, testing procedures, sampling protocols, in-use compliance requirements, and criteria governing evaluation of buses. Procedures for testing (including, but not limited to, certification testing) shall reflect actual operating conditions.

(f) DEFINITIONS.—For purposes of this section—

(1) URBAN BUS.—The term “urban bus” has the meaning provided under regulations of the Administrator promulgated under section 202(a).

(2) LOW-POLLUTING FUEL.—The term “low-polluting fuel” means methanol, ethanol, propane, or natural gas, or any comparably low-polluting fuel. In determining whether a fuel is comparably low-polluting, the Administrator shall consider both the level of emissions of air pollutants from vehicles using the fuel and the contribution of such emissions to ambient levels of air pollutants. For purposes of this paragraph, the term “methanol” includes any fuel which contains at least 85 percent methanol unless the Administrator increases such percentage as he deems appropriate to protect public health and welfare.

PART B—Aircraft Emission Standards

[¶ 2231]

Sec. 231. ESTABLISHMENT OF STANDARDS

(a)(1) Within 90 days after the date of enactment of the Clean Air Amendments of 1970, the Administrator shall commence a study and investigation of emissions of air pollutants from aircraft in order to determine—

(A) the extent to which such emissions affect air quality in air quality control regions throughout the United States, and

(B) the technological feasibility of controlling such emissions.

(2) The Administrator shall, from time to time, issue proposed emission standards applicable to the emission of any air pollutant from any class or classes of aircraft engines which in his judgment causes, or

contributes to, air pollution which may reasonably be anticipated to endanger public health or welfare.

(3) The Administrator shall hold public hearings with respect to such proposed standards. Such hearings shall, to the extent practicable, be held in air quality control regions which are most seriously affected by aircraft emissions. Within 90 days after the issuance of such proposed regulations, he shall issue such regulations with such modifications as he deems appropriate. Such regulations may be revised from time to time.

(b) Any regulation prescribed under this section (and any revision thereof) shall take effect after such period as the Administrator finds necessary (after consultation with the Secretary of Transportation) to permit the development and application of the requisite technology, giving appropriate consideration to the cost of compliance within such period.

(c) Any regulations in effect under this section on date of enactment of the Clean Air Act Amendments of 1977 or proposed or promulgated thereafter, or amendments thereto, with respect to aircraft shall not apply if disapproved by the President, after notice and opportunity for public hearing, on the basis of a finding by the Secretary of Transportation that any such regulation would create a hazard to aircraft safety. Any such finding shall include a reasonably specific statement of the basis upon which the finding was made.

[¶ 2232]

Sec. 232. ENFORCEMENT OF STANDARDS

(a) The Secretary of Transportation, after consultation with the Administrator, shall prescribe regulations to insure compliance with all standards prescribed under section 231 by the Administrator. The regulations of the Secretary of Transportation shall include provisions making such standards applicable in the issuance, amendment, modification, suspension, or revocation of any certificate authorized by the Federal Aviation Act or the Department of Transportation Act. Such Secretary shall insure that all necessary inspections are accomplished, and, may execute any power or duty vested in him by any other provision of law in the execution of all powers and duties vested in him under this section.

(b) In any action to amend, modify, suspend, or revoke a certificate in which violation of an emission standard prescribed under section 231 or of a regulation prescribed under subsection (a) is at issue, the certificate holder shall have the same notice and appeal rights as are prescribed for such holders in the Federal Aviation Act of 1958 or the Department of Transportation Act, except that in any appeal to the National Transportation Safety Board, the Board may amend, modify, or revoke the order of the Secretary of Transportation only if it finds no violation of such standard or regulation and that such amendment, modification, or revocation is consistent with safety in air transportation.

[¶ 2233]**Sec. 233. STATE STANDARDS AND CONTROLS**

No State or political subdivision thereof may adopt or attempt to enforce any standard respecting emissions of any air pollutant from any aircraft or engine thereof unless such standard is identical to a standard applicable to such aircraft under this part.

[¶ 2234]**Sec. 234. DEFINITIONS**

Terms used in this part (other than Administrator) shall have the same meaning as such terms have under section 101 of the Federal Aviation Act of 1958.

PART C—CLEAN FUEL VEHICLES**[¶ 2241]****Sec. 241. DEFINITIONS.**

For purposes of this part—

(1) **TERMS DEFINED IN PART A.**—The definitions applicable to part A under section 216 shall also apply for purposes of this part.

(2) **CLEAN ALTERNATIVE FUEL.**—The term “clean alternative fuel” means any fuel (including methanol, ethanol, or other alcohols (including any mixture thereof containing 85 percent or more by volume of such alcohol with gasoline or other fuels), reformulated gasoline, diesel, natural gas, liquefied petroleum gas, and hydrogen) or power source (including electricity) used in a clean-fuel vehicle that complies with the standards and requirements applicable to such vehicle under this title when using such fuel or power source. In the case of any flexible fuel vehicle or dual fuel vehicle, the term “clean alternative fuel” means only a fuel with respect to which such vehicle was certified as a clean-fuel vehicle meeting the standards applicable to clean-fuel vehicles under section 243(d)(2) when operating on clean alternative fuel (or any CARB standards which replaces such standards pursuant to section 243(e)).

(3) **NMOG.**—The term nonmethane organic gas (“NMOG”) means the sum of nonoxygenated and oxygenated hydrocarbons contained in a gas sample, including, at a minimum, all oxygenated organic gases containing 5 or fewer carbon atoms (i.e., aldehydes, ketones, alcohols, ethers, etc.), and all known alkanes, alkenes, alkynes, and aromatics containing 12 or fewer carbon atoms. To demonstrate compliance with a NMOG standard, NMOG emissions shall be measured in accordance with the “California Non-Methane Organic Gas Test Procedures”. In the case of vehicles using fuels other than base gasoline, the level of NMOG emissions shall be adjusted based on the reactivity of the emissions relative to vehicles using base gasoline.

(4) **BASE GASOLINE.**—The term “base gasoline” means gasoline which meets the following specifications:

Specifications of Base Gasoline Used as Basis for Reactivity
Readjustment:

API gravity	57.8
Sulfur, ppm	317
Color	Purple
Benzene, vol. (%)	1.35
Reid vapor pressure	8.7
Drivability	1195
Antiknock index	87.3
Distillation, D-86 F°	
IBP	92
10%	126
50%	219
90%	327
EP	414
Hydrocarbon Type, Vol. % FIA:	
Aromatics	30.9
Olefins	8.2
Saturates	60.9

The Administrator shall modify the definitions of NMOG, base gasoline, and the methods for making reactivity adjustments, to conform to the definitions and method used in California under the Low-Emission Vehicle and Clean Fuel Regulations of the California Air Resources Board, so long as the California definitions are, in the aggregate, at least as protective of public health and welfare as the definitions in this section.

(5) **COVERED FLEET.**—The term “covered fleet” means 10 or more motor vehicles which are owned or operated by a single person. In determining the number of vehicles owned or operated by a single person for purposes of this paragraph, all motor vehicles owned or operated, leased or otherwise controlled by such person, by any person who controls such person, by any person controlled by such person, and by any person under common control with such person shall be treated as owned by such person. The term “covered fleet” shall not include motor vehicles held for lease or rental to the general public, motor vehicles held for sale by motor vehicle dealers (including demonstration vehicles), motor vehicles used for motor vehicle manufacturer product evaluations or tests, law enforcement and other emergency vehicles, or nonroad vehicles (including farm and construction vehicles).

(6) **COVERED FLEET VEHICLE.**—The term “covered fleet vehicle” means only a motor vehicle which is—

- (i) in a vehicle class for which standards are applicable under this part; and
- (ii) in a covered fleet which is centrally fueled (or capable of being centrally fueled).

No vehicle which under normal operations is garaged at a personal residence at night shall be considered to be a vehicle which is capable of being centrally fueled within the meaning of this paragraph.

(7) **CLEAN-FUEL VEHICLE.**—The term “clean-fuel vehicle” means a vehicle in a class or category of vehicles which has been certified to meet for any model year the clean-fuel vehicle standards applicable under this part for that model year to clean-fuel vehicles in that class or category.

[¶ 2242]

Sec. 242. REQUIREMENTS APPLICABLE TO CLEAN FUEL VEHICLES.

(a) **PROMULGATION OF STANDARDS.**—Not later than 24 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations under this part containing clean-fuel vehicle standards for the clean-fuel vehicles specified in this part.

(b) **OTHER REQUIREMENTS.**—Clean-fuel vehicles of up to 8,500 gvwr subject to standards set forth in this part shall comply with all motor vehicle requirements of this title (such as requirements relating to on-board diagnostics, evaporative emissions, etc.) which are applicable to conventional gasoline-fueled vehicles of the same category and model year, except as provided in section 244 with respect to administration and enforcement, and except to the extent that any such requirement is in conflict with the provisions of this part. Clean-fuel vehicles of 8,500 gvwr or greater subject to standards set forth in this part shall comply with all requirements of this title which are applicable in the case of conventional gasoline-fueled or diesel fueled vehicles of the same category and model year, except as provided in section 244 with respect to administration and enforcement, and except to the extent that any such requirement is in conflict with the provisions of this part.

(c) **IN-USE USEFUL LIFE AND TESTING.**—(1) In the case of light-duty vehicles and light-duty trucks up to 6000 lbs gvwr, the useful life for purposes of determining in-use compliance with the standards under section 243 shall be—

(A) a period of 5 years or 50,000 miles (or the equivalent) whichever first occurs, in the case of standards applicable for purposes of certification at 50,000 miles; and

(B) a period of 10 years or 100,000 miles (or the equivalent) whichever first occurs, in the case of standards applicable for purposes of certification at 100,000 miles, except that in-use testing shall not be done for a period beyond 7 years or 75,000 miles (or the equivalent) whichever first occurs.

(2) In the case of light-duty trucks of more than 6,000 lbs gvwr, the useful life for purposes of determining in-use compliance with the standards under section 243 shall be—

(A) a period of 5 years or 50,000 miles (or the equivalent) whichever first occurs in the case of standards applicable for purposes of certification at 50,000 miles; and

(B) a period of 11 years or 120,000 miles (or the equivalent) whichever first occurs in the case of standards applicable for purposes of certification at 120,000 miles, except that in-use testing

shall not be done for a period beyond 7 years or 90,000 miles (or the equivalent) whichever first occurs.

[¶ 2243]

Sec. 243. STANDARDS FOR LIGHT-DUTY CLEAN FUEL VEHICLES.

(a) **EXHAUST STANDARDS FOR LIGHT-DUTY VEHICLES AND CERTAIN LIGHT-DUTY TRUCKS.**—The standards set forth in this subsection shall apply in the case of clean-fuel vehicles which are light-duty trucks of up to 6,000 lbs. gross vehicle weight rating (gvwr) (but not including light-duty trucks of more than 3,750 lbs. loaded vehicle weight (lvw)) or light-duty vehicles:

(1) **PHASE I.**—Beginning with model year 1996, for the air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions shall not exceed the levels specified in the following table:

PHASE I CLEAN FUEL VEHICLE EMISSION STANDARDS FOR LIGHT-DUTY TRUCKS OF UP TO 3,750 LBS. LVW AND UP TO 6,000 LBS. GVWR AND LIGHT-DUTY VEHICLES

<i>Pollutant</i>	<i>NMOG</i>	<i>CO</i>	<i>NO_x</i>	<i>PM</i>	<i>HCHO</i> (formaldehyde)
50,000 mile standard	0.125	3.4	0.4		0.015
100,000 mile standard	0.156	4.2	0.6	0.08 *	0.018

Standards are expressed in grams per mile (gpm).

* Standards for particulates (PM) shall apply only to diesel-fueled vehicles.

In the case of the 50,000 mile standards and the 100,000 mile standards, for purposes of certification, the applicable useful life shall be 50,000 miles or 100,000 miles, respectively.

(2) **PHASE II.**—Beginning with model year 2001, for air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions shall not exceed the levels specified in the following table.

PHASE II CLEAN FUEL VEHICLE EMISSION STANDARDS FOR LIGHT-DUTY TRUCKS OF UP TO 3,750 LBS. LVW AND UP TO 6,000 LBS. GVWR AND LIGHT-DUTY VEHICLES

<i>Pollutant</i>	<i>NMOG</i>	<i>CO</i>	<i>NO_x</i>	<i>PM</i> *	<i>HCHO</i> (formaldehyde)
50,000 mile standard	0.075	3.4	0.2		0.015
100,000 mile standard	0.090	4.2	0.3	0.08	0.018

Standards are expressed in grams per mile (gpm).

* Standards for particulates (PM) shall apply only to diesel-fueled vehicles.

In the case of the 50,000 mile standards and the 100,000 mile standards, for purposes of certification, the applicable useful life shall be 50,000 miles or 100,000 miles, respectively.

(b) **EXHAUST STANDARDS FOR LIGHT-DUTY TRUCKS OF MORE THAN 3,750 LBS. LVW AND UP TO 5,750 LBS. LVW AND UP TO 6,000 LBS. GVWR.**—The standards set forth in this paragraph shall apply in the case of clean-fuel vehicles which are light-duty trucks of more than 3,750 lbs. loaded vehicle weight (lvw) but not more than 5,750 lbs. lvw and not more than 6,000 lbs. gross weight rating (GVWR):

(1) **PHASE I.**—Beginning with model year 1996, for the air pollutants specified in the following table, the clean-fuel vehicle standards under

this section shall provide that vehicle exhaust emissions shall not exceed the levels specified in the following table.

PHASE I CLEAN FUEL VEHICLE EMISSION STANDARDS FOR
LIGHT-DUTY TRUCKS OF MORE THAN 3,750 LBS. AND UP TO
5,750 LBS. LVW AND UP TO 6,000 LBS. GVWR

Pollutant	NMOG	CO	NO _x	PM*	HCHO (formaldehyde)
50,000 mile standard	0.160	4.4	0.7	. . .	0.018
100,000 mile standard	0.200	5.5	0.9	0.08	0.023

Standards are expressed in grams per mile (gpm).

* Standards for particulates (PM) shall apply only to diesel-fueled vehicles.

In the case of the 50,000 mile standards and the 100,000 mile standards, for purposes of certification, the applicable useful life shall be 50,000 miles or 100,000 miles, respectively.

(2) PHASE II.—Beginning with model year 2001, for the air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions shall not exceed the levels specified in the following table.

PHASE II CLEAN FUEL VEHICLE EMISSION STANDARDS FOR
LIGHT-DUTY TRUCKS OF MORE THAN 3,750 LBS. AND UP TO
5,750 LBS. LVW AND UP TO 6,000 LBS. GVWR

Pollutant	NMOG	CO	NO _x	PM*	HCHO (formaldehyde)
50,000 mile standard	0.100	4.4	0.4	. . .	0.018
100,000 mile standard	0.130	5.5	0.5	0.08	0.023

Standards are expressed in grams per mile (gpm).

* Standards for particulates (PM) shall apply only to diesel-fueled vehicles.

In the case of the 50,000 mile standards and the 100,000 mile standards, for purposes of certification, the applicable useful life shall be 50,000 miles or 100,000 miles, respectively.

(c) EXHAUST STANDARDS FOR LIGHT-DUTY TRUCKS GREATER THAN 6,000 LBS. GVWR.—The standards set forth in this subsection shall apply in the case of clean-fuel vehicles which are light-duty trucks of more than 6,000 lbs. gross weight rating (GVWR) and less than or equal to 8,500 lbs. GVWR, beginning with model year 1998. For the air pollutants specified in the following table, the clean-fuel vehicle standards under this section shall provide that vehicle exhaust emissions of vehicles within the test weight categories specified in the following table shall not exceed the levels specified in such table.

CLEAN FUEL VEHICLE EMISSION STANDARDS FOR LIGHT-DUTY TRUCKS OF MORE THAN 6,000 LBS. GVWR

Test Weight Category: Up to 3750 lbs. tw

<i>Pollutant</i>	<i>NMOG</i>	<i>CO</i>	<i>NO_x</i>	<i>PM*</i>	<i>HCHO</i> (<i>formaldehyde</i>)
50,000 mile standard	0.125	3.4	0.4**		0.015
120,000 mile standard	0.180	5.0	0.6	.08	0.022

Test Weight Category: Above 3,750 but not above 5,750 lbs. tw

50,000 mile standard	0.160	4.4	0.7**		0.018
120,000 mile standard	0.230	6.4	1.0	0.10	0.027

Test Weight Category: Above 5,750 but not above 8,500 lbs. gvwr

50,000 mile standard	0.195	5.0	1.1**		0.022
120,000 mile standard	0.280	7.3	1.5	0.12	0.032

Standards are expressed in grams per mile (gpm).

* Standards for particulates (PM) shall apply only to diesel-fueled vehicles.

** Standard not applicable to diesel-fueled vehicles.

For the 50,000 mile standards and the 120,000 mile standards set forth in the table, the applicable useful life for purposes of certification shall be 50,000 miles or 120,000 miles, respectively.

(d) FLEXIBLE AND DUAL-FUEL VEHICLES.—

(1) **IN GENERAL.**—The Administrator shall establish standards and requirements under this section for the model year 1996 and thereafter for vehicles weighing not more than 8,500 lbs. gvwr which are capable of operating on more than one fuel. Such standards shall require that such vehicles meet the exhaust standards applicable under subsection (a), (b), and (c) for CO, NO_x, and HCHO, and if appropriate, PM for single-fuel vehicles of the same vehicle category and model year.

(2) **EXHAUST NMOG STANDARD FOR OPERATION ON CLEAN ALTERNATIVE FUEL.**—In addition to standards for the pollutants referred to in paragraph (1), the standards established under paragraph (1) shall require that vehicle exhaust emissions of NMOG not exceed the levels (expressed in grams per mile) specified in the tables below when the vehicle is operated on the clean alternative fuel for which such vehicle is certified:

NMOG STANDARDS FOR FLEXIBLE- AND DUAL-FUELED VEHICLES WHEN OPERATING ON CLEAN ALTERNATIVE FUEL LIGHT-DUTY TRUCKS UP TO 6000 LBS. GVWR AND LIGHT-DUTY VEHICLES

<i>Vehicle Type</i>	<i>Column A</i> (<i>50,000 mi.</i>) standard (<i>gpm</i>)	<i>Column B</i> (<i>100,000 mi.</i>) standard (<i>gpm</i>)
Beginning MY 1996:		
LDT's (0–3,750 lbs. LVW) and light-duty vehicles	0.125	0.156

LDT's (3,751–5,750 lbs. LVW)	0.160	0.20
Beginning MY 2001:		
LDT's (0–3,750 lbs. LVW) and light-duty vehicles	0.075	0.090
LDT's (3,751–5,750 lbs. LVW)	0.100	0.130

For standards under column A, for purposes of certification under section 206, the applicable useful life shall be 50,000 miles.

For standards under column B, for purposes of certification under section 206, the applicable useful life shall be 100,000 miles.

LIGHT-DUTY TRUCKS MORE THAN 6000 LBS. GVWR

<i>Vehicle Type</i>	<i>Column A (50,000 mi.) Standard</i>	<i>Column B (120,000 mi.) Standard</i>
Beginning MY 1998:		
LDT's (0–3,750 lbs. TW)	0.125	0.180
LDT's (3,751–5,750 lbs. TW)	0.160	0.230
LDT's (above 5750 lbs. TW)	0.195	0.280

For standards under column A, for purposes of certification under section 206, the applicable useful life shall be 50,000 miles.

For standards under column B, for purposes of certification under section 206, the applicable useful life shall be 120,000 miles.

(3) NMOG STANDARD FOR OPERATION ON CONVENTIONAL FUEL.—In addition to the standards referred to in paragraph (1), the standards established under paragraph (1) shall require that vehicle exhaust emissions of NMOG not exceed the levels (expressed in grams per mile) specified in the tables below:

NMOG STANDARDS FOR FLEXIBLE- AND DUAL-FUELED VEHICLES WHEN OPERATING ON CONVENTIONAL FUEL

LIGHT-DUTY TRUCKS OF UP TO 6000 LBS. GVWR AND LIGHT-DUTY VEHICLES

<i>Vehicle Type</i>	<i>Column A (50,000 mi.) Standard (gpm)</i>	<i>Column B (100,000 mi.) Standard (gpm)</i>
Beginning MY 1996:		
LDT's (0–3,750 lbs. LVW) and light-duty vehicles	0.25	0.31
LDT's (3,751–5,750 lbs. LVW)	0.32	0.40
Beginning MY 2001:		
LDT's (0–3,750 lbs. LVW) and light-duty vehicles	0.125	0.156
LDT's (3,751–5,750 lbs. LVW)	0.160	0.200

For standards under column A, for purposes of certification under section 206, the applicable useful life shall be 50,000 miles.

For standards under column B, for purposes of certification under section 206, the applicable useful life shall be 100,000 miles.

LIGHT-DUTY TRUCKS OF UP TO 6000 LBS. GVWR

<i>Vehicle type</i>	<i>Column A (50,000 mi.) Standard</i>	<i>Column B (120,000 mi.) Standard</i>
Beginning MY 1998:		
LDT's (0-3,750 lbs. TW)	0.25	0.36
LDT's (3,751-5,750 lbs. TW)	0.32	0.46
LDT's (above 5,750 lbs. TW)	0.39	0.56

For standards under column A, for purposes of certification under section 206, the applicable useful life shall be 50,000 miles.

For standards under column B, for purposes of certification under section 206, the applicable useful life shall be 120,000 miles.

(e) REPLACEMENT BY CARB STANDARDS.—

(1) SINGLE SET OF CARB STANDARDS.—If the State of California promulgates regulations establishing and implementing a single set of standards applicable in California pursuant to a waiver approved under section 209 to any category of vehicles referred to in subsection (a), (b), (c), or (d) of this section and such set of standards is, in the aggregate, at least as protective of public health and welfare as the otherwise applicable standards set forth in section 242 and subsection (a), (b), (c), or (d) of this section, such set of California standards shall apply to clean-fuel vehicles in such category in lieu of the standards otherwise applicable under section 242 and subsection (a), (b), (c), or (d) of this section, as the case may be.

(2) MULTIPLE SETS OF CARB STANDARDS.—If the State of California promulgates regulations establishing and implementing several different sets of standards applicable in California pursuant to a waiver approved under section 209 to any category of vehicles referred to in subsection (a), (b), (c), or (d) of this section and each of such sets of California standards is, in the aggregate, at least as protective of public health and welfare as the otherwise applicable standards set forth in section 242 and subsection (a), (b), (c), or (d) of this section, such standards shall be treated as “qualifying California standards” for purposes of this paragraph. Where more than one set of qualifying standards are established and administered by the State of California, the least stringent set of qualifying California standards shall apply to the clean-fuel vehicles concerned in lieu of the standards otherwise applicable to such vehicles under section 242 and this section.

(f) LESS STRINGENT CARB STANDARDS.—If the Low-Emission Vehicle and Clean Fuels Regulations of the California Air Resources Board applicable to any category of vehicles referred to in subsection (a), (b), (c), or (d) of this section are modified after the enactment of the Clean Air Act of 1990 to provide an emissions standard which is less stringent than the otherwise applicable standard set forth in subsection (a), (b), (c), or (d), or if any effective date contained in such regulations is delayed, such modified standards or such delay (or both, as the case may be) shall apply, for an interim period, in lieu of the standard or effective date otherwise applicable under subsection (a), (b), (c), or (d) to any vehicles covered by such modified standard or delayed effective date. The interim period shall be a period of not

more than 2 model years from the effective date otherwise applicable under subsection (a), (b), (c), or (d). After such interim period, the otherwise applicable standard set forth in subsection (a), (b), (c), or (d) shall take effect with respect to such vehicles (unless subsequently replaced under subsection (e)).

(g) NOT APPLICABLE TO HEAVY-DUTY VEHICLES.—Notwithstanding any provision of the Low-Emission Vehicle and Clean Fuels Regulations of the California Air Resources Board nothing in this section shall apply to heavy-duty engines in vehicles of more than 8,500 lbs. GVWR.

[¶ 2244]

Sec. 244. ADMINISTRATION AND ENFORCEMENT AS PER CALIFORNIA STANDARDS.

Where the numerical clean-fuel vehicle standards applicable under this part to vehicles of not more than 8,500 lbs. GVWR are the same as numerical emission standards applicable in California under the Low-Emission Vehicle and Clean Fuels Regulations of the California Air Resources Board ("CARB"), such standards shall be administered and enforced by the Administrator—

(1) in the same manner and with the same flexibility as the State of California administers and enforces corresponding standards applicable under the Low-Emission Vehicle and Clean Fuels Regulations of the California Air Resources Board ("CARB"); and

(2) subject to the same requirements, and utilizing the same interpretations and policy judgments, as are applicable in the case of such CARB standards, including, but not limited to, requirements regarding certification, production-line testing, and in-use compliance,

unless the Administrator determines (in promulgating the rules establishing the clean fuel vehicle program under this section) that any such administration and enforcement would not meet the criteria for a waiver under section 209. Nothing in this section shall apply in the case of standards under section 245 for heavy-duty vehicles.

[¶ 2245]

Sec. 245. STANDARDS FOR HEAVY-DUTY CLEAN FUEL VEHICLES (GVWR ABOVE 8500 UP TO 26,000 LBS).

(a) MODEL YEARS AFTER 1997; COMBINED NO_x AND NMHC STANDARD.—For classes or categories of heavy-duty vehicles or engines manufactured for the model year 1998 or, thereafter and having a GVWR greater than 8,500 lbs. and up to 26,000 lbs. GVWR, the standards under this part for clean-fuel vehicles shall require that combined emissions of oxides of nitrogen (NO_x) and nonmethane hydrocarbons (NMHC) shall not exceed 3.15 grams per brake horsepower hour (equivalent to 50 percent of the combined emission standards applicable under section 202 for such air pollutants in the case of a conventional model year 1994 heavy-duty diesel-fueled vehicle or engine). No standard shall be promulgated as provided in this section for any heavy-duty vehicle of more than 26,000 lbs. GVWR.

(b) REVISED STANDARDS THAT ARE LESS STRINGENT.—(1) The Administrator may promulgate a revised less stringent standard for the vehicles or engines referred to in subsection (a) if the Administrator determines that the 50 percent reduction required under subsection (a) is not technologically feasible for clean diesel-fueled vehicles and engines, taking into account durability, costs, lead time, safety, and other relevant factors. To provide adequate lead time the Administrator shall make a determination with regard to the technological feasibility of such 50 percent reduction before December 31, 1993.

(2) Any person may at any time petition the Administrator to make a determination under paragraph (1). The Administrator shall act on such a petition within 6 months after the petition is filed.

(3) Any revised less stringent standards promulgated as provided in this subsection shall require at least a 30 percent reduction in lieu of the 50 percent reduction referred to in paragraph (1).

[¶ 2246]

Sec. 246. CENTRALLY FUELED FLEETS.

(a) FLEET PROGRAM REQUIRED FOR CERTAIN NONATTAINMENT AREAS.—

(1) SIP REVISION.—Each State in which there is located all or part of a covered area (as defined in paragraph (2)) shall submit, within 42 months after the enactment of the Clean Air Act Amendments of 1990, a State implementation plan revision under section 110 and part D of title I to establish a clean-fuel vehicle program for fleets under this section.

(2) COVERED AREAS.—For purposes of this subsection, each of the following shall be a “covered area”:

(A) OZONE NONATTAINMENT AREAS.—Any ozone nonattainment area with a 1980 population of 250,000 or more classified under subpart 2 of part D of title I of this Act as Serious, Severe, or Extreme based on data for the calendar years 1987, 1988, and 1989. In determining the ozone nonattainment areas to be treated as covered areas pursuant to this subparagraph, the Administrator shall use the most recent interpretation methodology issued by the Administrator prior to the enactment of the Clean Air Act Amendments of 1990.

(B) CARBON MONOXIDE NONATTAINMENT AREAS.—Any carbon monoxide nonattainment area with a 1980 population of 250,000 or more and a carbon monoxide design value at or above 16.0 parts per million based on data for calendar years 1988 and 1989 (as calculated according to the most recent interpretation methodology issued prior to enactment of the Clean Air Act Amendments of 1990 by the United States Environmental Protection Agency), excluding those carbon monoxide nonattainment areas in which mobile sources do not contribute significantly to carbon monoxide exceedances.

(3) **PLAN REVISIONS FOR RECLASSIFIED AREAS.**—In the case of ozone nonattainment areas reclassified as Serious, Severe, or Extreme under part D of title I with a 1980 population of 250,000 or more, the State shall submit a plan revision meeting the requirements of this subsection within 1 year after reclassification. Such plan revision shall implement the requirements applicable under this subsection at the time of reclassification and thereafter, except that the Administrator may adjust for a limited period the deadlines for compliance where compliance with such deadlines would be infeasible.

(4) **CONSULTATION; CONSIDERATION OF FACTORS.**—Each State required to submit an implementation plan revision under this subsection shall develop such revision in consultation with fleet operators, vehicle manufacturers, fuel producers and distributors, motor vehicle fuel, and other interested parties, taking into consideration operational range, specialty uses, vehicle and fuel availability, costs, safety, resale values of vehicles and equipment and other relevant factors.

(b) **PHASE-IN OF REQUIREMENTS.**—The plan revision required under this section shall contain provisions requiring that at least a specified percentage of all new covered fleet vehicles in model year 1998 and thereafter purchased by each covered fleet operator in each covered area shall be clean-fuel vehicles and shall use clean alternative fuels when operating in the covered area. For the applicable model years (MY) specified in the following table and thereafter, the specified percentage shall be as provided in the table for the vehicle types set forth in the table:

CLEAN FUEL VEHICLE PHASE-IN REQUIREMENTS FOR FLEETS

<i>Vehicle Type</i>	<i>MY1998</i>	<i>MY1999</i>	<i>MY2000</i>
Light-duty trucks up to 6,000 lbs. GVWR and light-duty vehicles	30%	50%	70%
Heavy-duty trucks above 8,500 lbs. GVWR	50%	50%	50%

The term MY refers to model year.

(c) **ACCELERATED STANDARD FOR LIGHT-DUTY TRUCKS UP TO 6,000 LBS. GVWR AND LIGHT-DUTY VEHICLES.**—Notwithstanding the model years for which clean-fuel vehicle standards are applicable as provided in section 243, for purposes of this section, light duty trucks of up to 6,000 lbs. GVWR and light-duty vehicles manufactured in model years 1998 through model year 2000 shall be treated as clean-fuel vehicles only if such vehicles comply with the standards applicable under section 243 for vehicles in the same class for the model year 2001. The requirements of subsection (b) shall take effect on the earlier of the following:

(1) The first model year after model year 1997 in which new light-duty trucks up to 6,000 lbs. GVWR and light-duty vehicles which comply with the model year 2001 standards under section 243 are offered for sale in California.

(2) Model year 2001.

Whenever the effective date of subsection (b) is delayed pursuant to paragraph (1) of this subsection, the phase-in schedule under subsection (b) shall be modified to commence with the model year referred to in paragraph (1) in lieu of model year 1998.

(d) CHOICE OF VEHICLES AND FUEL.—The plan revision under this subsection shall provide that the choice of clean-fuel vehicles and clean alternative fuels shall be made by the covered fleet operator subject to the requirements of this subsection.

(e) AVAILABILITY OF CLEAN ALTERNATIVE FUEL.—The plan revision shall require fuel providers to make clean alternative fuel available to covered fleet operators at locations at which covered fleet vehicles are centrally fueled.

(f) CREDITS.—

(1) ISSUANCE OF CREDITS.—The State plan revision required under this section shall provide for the issuance by the State of appropriate credits to a fleet operator for any of the following (or any combination thereof):

(A) The purchase of more clean-fuel vehicles than required under this section.

(B) The purchase of clean fuel vehicles which meet more stringent standards established by the Administrator pursuant to paragraph (4).

(C) The purchase of vehicles in categories which are not covered by this section but which meet standards established for such vehicles under paragraph (4).

(2) USE OF CREDITS; LIMITATIONS BASED ON WEIGHT CLASSES.—

(A) USE OF CREDITS.—Credits under this subsection may be used by the person holding such credits to demonstrate compliance with this section or may be traded or sold for use by any other person to demonstrate compliance with other requirements applicable under this section in the same nonattainment area. Credits obtained at any time may be held or banked for use at any later time, and when so used, such credits shall maintain the same value as if used at an earlier date.

(B) LIMITATIONS BASED ON WEIGHT CLASSES.—Credits issued with respect to the purchase of vehicles of up to 8,500 lbs. GVWR may not be used to demonstrate compliance by any person with the requirements applicable under this subsection to vehicles of more than 8,500 lbs. GVWR. Credits issued with respect to the purchase of vehicles of more than 8,500 lbs. GVWR may not be used to demonstrate compliance by any person with the requirements applicable under this subsection to vehicles weighing up to 8,500 lbs. GVWR.

(C) **WEIGHTING.**—Credits issued for purchase of a clean fuel vehicle under this subsection shall be adjusted with appropriate weighting to reflect the level of emission reduction achieved by the vehicle.

(3) **REGULATIONS AND ADMINISTRATION.**—Within 12 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations for such credit program. The State shall administer the credit program established under this subsection.

(4) **STANDARDS FOR ISSUING CREDITS FOR CLEANER VEHICLES.**—Solely for purposes of issuing credits under paragraph (1)(B), the Administrator shall establish under this paragraph standards for Ultra-Low Emission Vehicles ("ULEV"s) and Zero Emissions Vehicles ("ZEV"s) which shall be more stringent than those otherwise applicable to clean-fuel vehicles under this part. The Administrator shall certify clean fuel vehicles as complying with such more stringent standards, and administer and enforce such more stringent standards, in the same manner as in the case of the otherwise applicable clean-fuel vehicle standards established under this section. The standards established by the Administrator under this paragraph for vehicles under 8,500 lbs. GVWR or greater shall conform as closely as possible to standards which are established by the State of California for ULEV and ZEV vehicles in the same class. For vehicles of 8,500 lbs. GVWR or more, the Administrator shall promulgate comparable standards for purposes of this subsection.

(5) **EARLY FLEET CREDITS.**—The State plan revision shall provide credits under this subsection to fleet operators that purchase vehicles certified to meet clean-fuel vehicle standards under this part during any period after approval of the plan revision and prior to the effective date of the fleet program under this section.

(g) **AVAILABILITY TO THE PUBLIC.**—At any facility owned or operated by a department, agency, or instrumentality of the United States where vehicles subject to this subsection are supplied with clean alternative fuel, such fuel shall be offered for sale to the public for use in other vehicles during reasonable business times and subject to national security concerns, unless such fuel is commercially available for vehicles in the vicinity of such Federal facilities.

(h) **TRANSPORTATION CONTROL MEASURES.**—The Administrator shall by rule, within 1 year after the enactment of the Clean Air Act Amendments of 1990, ensure that certain transportation control measures including time-of-day or day-of-week restrictions, and other similar measures that restrict vehicle usage, do not apply to any clean-fuel vehicle that meets the requirements of this section. This subsection shall apply notwithstanding title I.

[¶ 2247]

Sec. 247. VEHICLE CONVERSIONS.

(a) **CONVERSION OF EXISTING AND NEW CONVENTIONAL VEHICLES TO CLEAN-FUEL VEHICLES.**—The requirements of section 246 may be met through the conversion of existing or new gasoline or diesel-powered vehicles to clean-

fuel vehicles which comply with the applicable requirements of that section. For purposes of such provisions the conversion of a vehicle to clean fuel vehicle shall be treated as the purchase of a clean fuel vehicle. Nothing in this part shall be construed to provide that any covered fleet operator subject to fleet vehicle purchase requirements under section 246 shall be required to convert existing or new gasoline or diesel-powered vehicles to clean-fuel vehicles or to purchase converted vehicles.

(b) REGULATIONS.—The Administrator shall, within 24 months after the enactment of the Clean Air Act Amendments of 1990, consistent with the requirements of this title applicable to new vehicles, promulgate regulations governing conversions of conventional vehicles to clean-fuel vehicles. Such regulations shall establish criteria for such conversions which will ensure that a converted vehicle will comply with the standards applicable under this part to clean-fuel vehicles. Such regulations shall provide for the application to such conversions of the same provisions of this title (including provisions relating to administration enforcement) as are applicable to standards under section 242, 243, 244, and 245, except that in the case of conversions the Administrator may modify the applicable regulations implementing such provisions as the Administrator deems necessary to implement this part.

(c) ENFORCEMENT.—Any person who converts conventional vehicles to clean fuel vehicles pursuant to subsection (b), shall be considered a manufacturer for purposes of sections 206 and 207 and related enforcement provisions. Nothing in the preceding sentence shall require a person who performs such conversions to warrant any part or operation of a vehicle other than as required under this part. Nothing in this paragraph shall limit the applicability of any other warranty to unrelated parts or operations.

(d) TAMPERING.—The conversion from a vehicle capable of operating on gasoline or diesel fuel only to a clean-fuel vehicle shall not be considered a violation of section 203(a)(3) if such conversion complies with the regulations promulgated under subsection (b).

(e) SAFETY.—The Secretary of Transportation shall, if necessary, promulgate rules under applicable motor vehicle laws regarding the safety of vehicles converted from existing and new vehicles to clean-fuel vehicles.

[¶ 2248]

Sec. 248. FEDERAL AGENCY FLEETS.

(a) ADDITIONAL PROVISIONS APPLICABLE.—The provisions of this section shall apply, in addition to the other provisions of this part, in the case of covered fleet vehicles owned or operated by an agency, department, or instrumentality of the United States, except as otherwise provided in subsection (e).

(b) COST OF VEHICLES TO FEDERAL AGENCY.—Notwithstanding the provisions of section 211 of the Federal Property and Administrative Services Act of 1949, the Administrator of General Services shall not include the incremental costs of clean-fuel vehicles in the amount to be reimbursed by Federal agencies if the Administrator of General Services determines that appropriations pro-

vided pursuant to this paragraph are sufficient to provide for the incremental cost of such vehicles over the cost of comparable conventional vehicles.

(c) **LIMITATIONS ON APPROPRIATIONS.**—Funds appropriated pursuant to the authorization under this paragraph shall be applicable only—

(1) to the portion of the cost of acquisition, maintenance and operation of vehicles acquired under this subparagraph which exceeds the cost of acquisition, maintenance and operation of comparable conventional vehicles;

(2) to the portion of the costs of fuel storage and dispensing equipment attributable to such vehicles which exceeds the costs for such purposes required for conventional vehicles; and

(3) to the portion of the costs of acquisition of clean-fuel vehicles which represents a reduction in revenue from the disposal of such vehicles as compared to revenue resulting from the disposal of comparable conventional vehicles.

(d) **VEHICLE COSTS.**—The incremental cost of vehicles acquired under this part over the cost of comparable conventional vehicles shall not be applied to any calculation with respect to a limitation under law on the maximum cost of individual vehicles which may be required by the United States.

(e) **EXEMPTIONS.**—The requirements of this part shall not apply to vehicles with respect to which the Secretary of Defense has certified to the Administrator that an exemption is needed based on national security consideration.

(f) **ACQUISITION REQUIREMENT.**—Federal agencies, to the extent practicable, shall obtain clean-fuel vehicles from original equipment manufacturers.

(g) **AUTHORIZATION OF APPROPRIATIONS.**—There are authorized to be appropriated such sums as may be required to carry out the provisions of this section: *Provided*, That such sums as are appropriated for the Administrator of General Services pursuant to the authorization under this section shall be added to the General Supply Fund established in section 109 of the Federal Property and Administrative Services Act of 1949.

[¶ 2249]

Sec. 249. CALIFORNIA PILOT TEST PROGRAM.

(a) **ESTABLISHMENT.**—The Administrator shall establish a pilot program in the State of California to demonstrate the effectiveness of clean-fuel vehicles in controlling air pollution in ozone nonattainment areas.

(b) **APPLICABILITY.**—The provisions of this section shall only apply to light-duty trucks and light-duty vehicles, and such provisions shall apply only in the State of California, except as provided in subsection (f).

(c) **PROGRAM REQUIREMENTS.**—Not later than 24 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations establishing requirements under this section applicable in the State of California. The regulations shall provide the following:

¶ 2249 Sec. 249

(1) **CLEAN-FUEL VEHICLES.**—Clean-fuel vehicles shall be produced, sold, and distributed (in accordance with normal business practices and applicable franchise agreements) to ultimate purchasers in California (including owners of covered fleets referred to in section 246) in numbers that meet or exceed the following schedule:

Model Years	Number of Clean- Fuel vehicles
1996, 1997, 1998	150,000 vehicles
1999 and thereafter	300,000 vehicles

(2) **CLEAN ALTERNATIVE FUELS.**—(A) Within 2 years after the enactment of the Clean Air Act Amendments of 1990, the State of California shall submit a revision of the applicable implementation plan under part D of title I and section 110 containing a clean fuel plan that requires that clean alternative fuels on which the clean-fuel vehicles required under this paragraph can operate shall be produced and distributed by fuel suppliers and made available in California. At a minimum, sufficient clean alternative fuels shall be produced, distributed and made available to assure that all clean-fuel vehicles required under this section can operate, to the maximum extent practicable, exclusively on such fuels in California. The State shall require that clean alternative fuels be made available and offered for sale at an adequate number of locations with sufficient geographic distribution to ensure convenient refueling with clean alternative fuels, considering the number of, and type of, such vehicles sold and the geographic distribution of such vehicles within the State. The State shall determine the clean alternative fuels to be produced, distributed, and made available based on motor vehicle manufacturers' projections of future sales of such vehicles and consultations with the affected local governments and fuel suppliers.

(B) The State may by regulation grant persons subject to the requirements prescribed under this paragraph an appropriate amount of credits for exceeding such requirements, and any person granted credits may transfer some or all of the credits for use by one or more persons in demonstrating compliance with such requirements. The State may make the credits available for use after consideration of enforceability, environmental, and economic factors and upon such terms and conditions as the State finds appropriate.

(C) The State may also by regulation establish specifications for any clean alternative fuel produced and made available under this paragraph as the State finds necessary to reduce or eliminate an unreasonable risk to public health, welfare, or safety associated with its use or to ensure acceptable vehicle maintenance and performance characteristics.

(D) If a retail gasoline dispensing facility would have to remove or replace one or more motor vehicle fuel underground storage tanks and accompanying piping in order to comply with the provisions of this section, and it had removed and replaced such tank or tanks and

accompanying piping in order to comply with subtitle I of the Solid Waste Disposal Act prior to the date of the enactment of the Clean Air Act Amendments of 1990, it shall not be required to comply with this subsection until a period of 7 years has passed from the date of the removal and replacement of such tank or tanks.

(E) Nothing in this section authorizes any State other than California to adopt provisions regarding clean alternative fuels.

(F) If the State of California fails to adopt a clean fuel program that meets the requirements of this paragraph, the Administrator shall, within 4 years after the enactment of the Clean Air Act Amendments of 1990, establish a clean fuel program for the State of California under this paragraph and section 110(c) that meets the requirements of this paragraph.

(d) CREDITS FOR MOTOR VEHICLE MANUFACTURERS.—(1) The Administrator may (by regulation) grant a motor vehicle manufacturer an appropriate amount of credits toward fulfillment of such manufacturer's share of the requirements of subsection (c)(1) of this section for any of the following (or any combination thereof):

(A) The sale of more clean-fuel vehicles than required under subsection (c)(1) of this section.

(B) The sale of clean fuel vehicles which meet standards established by the Administrator as provided in paragraph (3) which are more stringent than the clean-fuel vehicle standards otherwise applicable to such clean-fuel vehicle. A manufacturer granted credits under this paragraph may transfer some or all of the credits for use by one or more other manufacturers in demonstrating compliance with the requirements prescribed under this paragraph. The Administrator may make the credits available for use after consideration of enforceability, environmental, and economic factors and upon such terms and conditions as he finds appropriate. The Administrator shall grant credits in accordance with this paragraph, notwithstanding any requirements of State law or any credits granted with respect to the same vehicles under any State law, rule, or regulation.

(2) REGULATIONS AND ADMINISTRATION.—The Administrator shall administer the credit program established under this subsection. Within 12 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations for such credit program.

(3) STANDARDS FOR ISSUING CREDITS FOR CLEANER VEHICLES.—The more stringent standards and other requirements (including requirements relating to the weighting of credits) established by the Administrator for purposes of the credit program under 245(e) (relating to credits for clean fuel vehicles in the fleets program) shall also apply for purposes of the credit program under this paragraph.

(e) PROGRAM EVALUATION.—(1) Not later than June 30, 1994 and again in connection with the report under paragraph (2), the Administrator shall provide a report to the Congress on the status of the California Air Resources Board Low-Emissions Vehicles and Clean Fuels Program. Such report shall examine the capability, from a technological standpoint, of motor vehicle manufacturers and motor vehicle fuel suppliers to comply with the requirements of such program and with the requirements of the California Pilot Program under this section.

(2) Not later than June 30, 1998, the Administrator shall complete and submit a report to Congress on the effectiveness of the California pilot program under this section. The report shall evaluate the level of emission reductions achieved under the program, the costs of the program, the advantages and disadvantages of extending the program to other nonattainment areas, and desirability of continuing or expanding the program in California.

(3) The program under this section cannot be extended or terminated by the Administrator except by Act of Congress enacted after the date of the Clean Air Act Amendments of 1990. Section 177 of this Act does not apply to the program under this section.

(f) VOLUNTARY OPT-IN FOR OTHER STATES.—

(1) EPA REGULATIONS.—Not later than 2 years after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations establishing a voluntary opt-in program under this subsection pursuant to which—

(A) clean-fuel vehicles which are required to be produced, sold, and distributed in the State of California under this section, and

(B) clean alternative fuels required to be produced and distributed under this section by fuel suppliers and made available in California

may also be sold and used in other States which submit plan revisions under paragraph (2).

(2) PLAN REVISIONS.—Any State in which there is located all or part of an ozone nonattainment area classified under subpart D of title I as Serious, Severe, or Extreme may submit a revision of the applicable implementation plan under part D of title I and section 110 to provide incentives for the sale or use in such an area or State of clean-fuel vehicles which are required to be produced, sold, and distributed in the State of California, and for the use in such an area or State of clean alternative fuels required to be produced and distributed by fuel suppliers and made available in California. Such plan provisions shall not take effect until 1 year after the State has provided notice of such provisions to motor vehicle manufacturers and to fuel suppliers.

(3) INCENTIVES.—The incentives referred to in paragraph (2) may include any or all of the following:

(A) A state registration fee on new motor vehicles registered in the State which are not clean-fuel vehicles in the amount of at least 1 percent of the cost of the vehicle. The proceeds of such fee shall be used to provide financial incentives to purchasers of clean-fuel vehicles and to vehicle dealers who sell high volumes or high percentages of clean-fuel vehicles and to defray the administrative costs of the incentive program.

(B) Provisions to exempt clean-fuel vehicles from high occupancy vehicle or trip reduction requirements.

(C) Provisions to provide preference in the use of existing parking spaces for clean-fuel vehicles.

The incentives under this paragraph shall not apply in the case of covered fleet vehicles.

(4) NO SALES OR PRODUCTION MANDATE.—The regulations and plan revisions under paragraphs (1) and (2) shall not include any production or sales mandate for clean-fuel vehicles or clean alternative fuels. Such regulations and plan revisions shall also provide that vehicle manufacturers and fuel suppliers may not be subject to penalties or sanctions for failing to produce or sell clean-fuel vehicles or clean alternative fuels.

[¶ 2250]

Sec. 250. GENERAL PROVISIONS.

(a) STATE REFUELING FACILITIES.—If any State adopts enforceable provisions in an implementation plan applicable to a nonattainment area which provides that existing State refueling facilities will be made available to the public for the purchase of clean alternative fuels or that State-operated refueling facilities for such fuels will be constructed and operated by the State and made available to the public at reasonable times, taking into consideration safety, costs, and other relevant factors, in approving such plan under section 110 and part D, the Administrator may credit a State with the emission reductions for purposes of part D attributable to such actions.

(b) NO PRODUCTION MANDATE.—The Administrator shall have no authority under this part to mandate the production of clean-fuel vehicles except as provided in the California pilot test program or to specify as applicable the models, lines, or types of, or marketing or price practices, policies, or strategies for, vehicles subject to this part. Nothing in this part shall be construed to give the Administrator authority to mandate marketing or pricing practices, policies, or strategies for fuels.

(c) **TANK AND FUEL SYSTEM SAFETY.**—The Secretary of Transportation shall, in accordance with the National Motor Vehicle Traffic Safety Act of 1966, promulgate applicable regulations regarding the safety and use of fuel storage cylinders and fuel systems, including appropriate testing and retesting, in conversions of motor vehicles.

(d) **CONSULTATION WITH DEPARTMENT OF ENERGY AND DEPARTMENT OF TRANSPORTATION.**—The Administrator shall coordinate with the Secretaries of the Department of Energy and the Department of Transportation in carrying out the Administrator's duties under this part.

TITLE III—General**[¶ 2301]****Sec. 301. ADMINISTRATION**

(a)(1) The Administrator is authorized to prescribe such regulations as are necessary to carry out his functions under this Act. The Administrator may delegate to any officer or employee of the Department of Health, Education, and Welfare such of his powers and duties under this Act, except the making of regulations subject to section 307(2), as he may deem necessary or expedient.

(b) Upon the request of an air pollution control agency, personnel of the Environmental Protection Agency may be detailed to such agency for the purpose of carrying out the provisions of this Act.

(c) Payments under grants made under this Act may be made in installments, and in advance or by way of reimbursement, as may be determined by the Administrator.

(2) Not later than one year after the date of enactment of this paragraph, the Administrator shall promulgate regulations establishing general applicable procedures and policies for regional officers and employees (including the Regional Administrator) to follow in carrying out a delegation under paragraph (1), if any. Such regulations shall be designed—

(A) to assure fairness and uniformity in the criteria, procedures, and policies applied by the various regions in implementing and enforcing the Act;

(B) to assure at least an adequate quality audit of each State's performance and adherence to the requirements of this Act in implementing and enforcing the Act, particularly in the review of new sources and in enforcement of the Act; and

(C) to provide a mechanism for identifying and standardizing inconsistent or varying criteria, procedures, and policies being employed by such officers and employees in implementing and enforcing the Act.

(d) TRIBAL AUTHORITY.—(1) Subject to the provisions of paragraph (2), the Administrator—

(A) is authorized to treat Indian tribes as States under this Act, except for purposes of the requirement that makes available for application by each State no less than one-half of 1 percent of annual appropriations under section 105; and

(B) may provide any such Indian tribe grant and contract assistance to carry out functions provided by this Act.

(2) The Administrator shall promulgate regulations within 18 months after the date of the enactment of the Clean Air Act Amendments

of 1990, specifying those provisions of this Act for which it is appropriate to treat Indian tribes as States. Such treatment shall be authorized only if—

(A) the Indian tribe has a governing body carrying out substantial governmental duties and powers;

(B) the functions to be exercised by the Indian tribe pertain to the management and protection of air resources within the exterior boundaries of the reservation or other areas within the tribe's jurisdiction; and

(C) the Indian tribe is reasonably expected to be capable, in the judgment of the Administrator, of carrying out the functions to be exercised in a manner consistent with the terms and purposes of this Act and all applicable regulations.

(3) The Administrator may promulgate regulations which establish the elements of tribal implementation plans and procedures for approval or disapproval of tribal implementation plans and portions thereof.

(4) In any case in which the Administrator determines that the treatment of Indian tribes as identical to States is inappropriate or administratively infeasible, the Administrator may provide, by regulation, other means by which the Administrator will directly administer such provisions so as to achieve the appropriate purpose.

(5) Until such time as the Administrator promulgates regulations pursuant to this subsection, the Administrator may continue to provide financial assistance to eligible Indian tribes under section 105.

[¶ 2302]

Sec. 302. DEFINITIONS

When used in this Act—

(a) The term “Administrator” means the Administrator of the Environmental Protection Agency.

(b) The term “air pollution control agency” means any of the following:

(1) A single State agency designated by the Governor of that State as the official State air pollution control agency for purposes of this Act.

(2) An agency established by two or more States and having substantial powers or duties pertaining to the prevention and control of air pollution.

(3) A city, county, or other local government health authority, or, in the case of any city, county, or other local government in which there is an agency other than the health authority charged with responsibility for enforcing ordinances or laws relating to the prevention and control of air pollution, such other agency.

(4) An agency of two or more municipalities located in the same State or in different States and having substantial powers or duties pertaining to the prevention and control of air pollution.

(5) An agency of an Indian tribe.

(c) The term “interstate air pollution control agency” means—

(1) an air pollution control agency established by two or more States, or

(2) an air pollution control agency of two or more municipalities located in different States.

(d) The term “State” means a State, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, and American Samoa and includes the Commonwealth of Northern Mariana Islands.

(e) The term “person” includes an individual, corporation, partnership, association, State, municipality, and political subdivision of a State and any agency, department, or instrumentality of the United States and any officer, agent, or employee thereof.

(f) The term “municipality” means a city, town, borough, county, parish, district, or other public body created by or pursuant to State law.

(g) The term “air pollutant” means an air pollution agent or combination of such agents, including any physical, chemical, biological, radioactive (including source material, special nuclear material, and byproduct material) substance or matter which is emitted into or otherwise enters the ambient air. Such term includes any precursors to the formation of any air pollutant, to the extent the Administrator has identified such precursor or precursors for the particular purpose for which the term “air pollutant” is used.

(h) All language referring to effects on welfare includes, but is not limited to, effects on soils, water, crops, vegetation, manmade materials, animals, wildlife, weather, visibility, and climate, damage to and deterioration of property, and hazards to transportation, as well as effects on economic values and on personal comfort and well-being, whether caused by transformation, conversion, or combination with other air pollutants.

(i) The term “Federal land manager” means, with respect to any lands in the United States, the Secretary of the department with authority over such lands.

(j) Except as otherwise expressly provided, the terms “major stationary source” and “major emitting facility” mean any stationary facility or source of air pollutants which directly emits, or has the potential to emit, one hundred tons per year or more of any air pollutant (including any major emitting facility or source of fugitive emissions of any such pollutant, as determined by rule by the Administrator).

(k) The terms “emission limitation” and “emission standard” mean a requirement established by the State or the Administrator which limits the quantity, rate, or concentration of emissions of air pollutants on a continuous basis, including any requirement relating to the operation or maintenance of a

source to assure continuous emission reduction and any design, equipment work practice or operational standard promulgated under this Act.

(l) The term “standard of performance” means a requirement of continuous emission reduction, including any requirement relating to the operation or maintenance of a source to assure continuous emission reduction.

(m) The term “means of emission limitation” means a system of continuous emission reduction (including the use of specific technology or fuels with specified pollution characteristics).

(n) The term “primary standard attainment date” means the date specified in the applicable implementation plan for the attainment of a national primary ambient air quality standard for any air pollutant.

(o) The term “delayed compliance order” means an order issued by the State or by the Administrator to an existing stationary source, postponing the date required under an applicable implementation plan for compliance by such source with any requirement of such plan.

(p) The term “schedule and timetable of compliance” means a schedule of required measures including an enforceable sequence of actions or operations leading to compliance with an emission limitation, other limitation, prohibition, or standard.

(q) For purposes of this Act, the term “applicable implementation plan” means the portion (or portions) of the implementation plan, or most recent revision thereof, which has been approved under section 110, or promulgated under section 110(c), or promulgated or approved pursuant to regulations promulgated under section 301(d) and which implements the relevant requirements of this Act.

(r) INDIAN TRIBE.—The term “Indian tribe” means any Indian tribe, band, nation, or other organized group or community, including any Alaska Native village, which is Federally recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians.

(s) VOC.—The term “VOC” means volatile organic compound, as defined by the Administrator.

(t) PM-10.—The term “PM-10” means particulate matter with an aerodynamic diameter less than or equal to a nominal ten micrometers, as measured by such method as the Administrator may determine.

(u) NAAQS AND CTG.—The term “NAAQS” means national ambient air quality standard. The term “CTG” means a Control Technique Guideline published by the Administrator under section 108.

(v) NO_x.—The term “NO_x” means oxides of nitrogen.

(w) CO.—The term “CO” means carbon monoxide.

(x) SMALL SOURCE.—The term “small source” means a source that emits less than 100 tons of regulated pollutants per year, or any class of persons that the Administrator determines, through regulation, generally lack technical ability or knowledge regarding control of air pollution.

(y) **FEDERAL IMPLEMENTATION PLAN.**—The term “Federal implementation plan” means a plan (or portion thereof) promulgated by the Administrator to fill all or a portion of a gap or otherwise correct all or a portion of an inadequacy in a State implementation plan, and which includes enforceable emission limitations or other control measures, means or techniques (including economic incentives, such as marketable permits or auctions of emissions allowances), and provides for attainment of the relevant national ambient air quality standard.

(z) **STATIONARY SOURCE.**—The term “stationary source” means generally any source of an air pollutant except those emissions resulting directly from an internal combustion engine for transportation purposes or from a nonroad engine or nonroad vehicle as defined in section 216.

[¶ 2303]

Sec. 303. EMERGENCY POWERS

Notwithstanding any other provision of this Act, the Administrator, upon receipt of evidence that a pollution source or combination of sources (including moving sources) is presenting an imminent and substantial endangerment to public health or welfare or the environment, may bring suit on behalf of the United States in the appropriate United States district court to immediately restrain any person causing or contributing to the alleged pollution to stop the emission of air pollutants causing or contributing to such pollution or to take such other action as may be necessary.

If it is not practicable to assure prompt protection of public health or welfare or the environment by commencement of such a civil action, the Administrator may issue such orders as may be necessary to protect public health or welfare or the environment.

Prior to taking any action under this section, the Administrator shall consult with appropriate State and local authorities and attempt to confirm the accuracy of the information on which the action proposed to be taken is based. Any order issued by the Administrator under this section shall be effective upon issuance and shall remain in effect for a period of not more than 60 days, unless the Administrator brings an action pursuant to the first sentence of this section before the expiration of that period. Whenever the Administrator brings such an action within the 60-day period, such order shall remain in effect for an additional 14 days or for such longer period as may be authorized by the court in which such action is brought.

[¶ 2304]

Sec. 304. CITIZEN SUITS

(a) Except as provided in subsection (b), any person may commence a civil action on his own behalf—

(1) against any person (including (i) the United States, and (ii) any other governmental instrumentality or agency to the extent permitted by the Eleventh Amendment to the Constitution) who is alleged [to have violated (if there is evidence that the alleged violation has been repeated)

or] to be in violation of (A) an emission standard or limitation under this Act or (B) an order issued by the Administrator or a State with respect to such a standard or limitation,

(2) against the Administrator where there is alleged a failure of the Administrator to perform any act or duty under this Act which is not discretionary with the Administrator, or

(3) against any person who proposes to construct or constructs any new or modified major emitting facility without a permit required under part C of title I (relating to significant deterioration of air quality) or part D of title I (relating to nonattainment) or who is alleged [to have violated (if there is evidence that the alleged violation has been repeated) or] to be in violation of any condition of such permit.

[CCH Note: The amendments indicated by brackets take effect with respect to actions brought after November 15, 1992, as per P.L. 101-549, Section 707(g).]

The district courts shall have jurisdiction, without regard to the amount in controversy or the citizenship of the parties, to enforce such an emission standard or limitation, or such an order, or to order the Administrator to perform such act or duty, as the case may be and to apply any appropriate civil penalties (except for actions under paragraph (2)). The district courts of the United States shall have jurisdiction to compel (consistent with paragraph (2) of this subsection) agency action unreasonably delayed, except that an action to compel agency action referred to in section 307(b) which is unreasonably delayed may only be filed in a United States District Court within the circuit in which such action would be reviewable under section 307(b). In any such action for unreasonable delay, notice to the entities referred to in subsection (b)(1)(A) shall be provided 180 days before commencing such action.

(b) No action may be commenced—

(1) under subsection (a)(1)—

(A) prior to 60 days after the plaintiff has given notice of the violation (i) to the Administrator, (ii) to the State in which the violation occurs, and (iii) to any alleged violator of the standard, limitation, or order, or

(B) if the Administrator or State has commenced and is diligently prosecuting a civil action in a court of the United States or a State to require compliance with the standard, limitation, or order, but in any such action in a court of the United States any person may intervene as a matter of right.

(2) under subsection (a)(2) prior to 60 days after the plaintiff has given notice of such action to the Administrator,

except that such action may be brought immediately after such notification in the case of an action under this section respecting a violation of section 112(i)(3)(A) or (f)(4) or an order issued by the Administrator pursuant to

section 113(a). Notice under this subsection shall be given in such manner as the Administrator shall prescribe by regulation.

(c)(1) Any action respecting a violation by a stationary source of an emission standard or limitation or an order respecting such standard or limitation may be brought only in the judicial district in which such source is located.

(2) In any action under this section, the Administrator, if not a party, may intervene as a matter of right at any time in the proceeding. A judgment in an action under this section to which the United States is not a party shall not, however, have any binding effect upon the United States.

(3) Whenever any action is brought under this section the plaintiff shall serve a copy of the complaint on the Attorney General of the United States and on the Administrator. No consent judgment shall be entered in an action brought under this section in which the United States is not a party prior to 45 days following the receipt of a copy of the proposed consent judgment by the Attorney General and the Administrator during which time the Government may submit its comments on the proposed consent judgment to the court and parties or may intervene as a matter of right.

(d) The court, in issuing any final order in any action brought pursuant to subsection (a) of this section, may award costs of litigation (including reasonable attorney and expert witness fees) to any party, whenever the court determines such award is appropriate. The court may, if a temporary restraining order or preliminary injunction is sought, require the filing of a bond or equivalent security in accordance with the Federal Rules of Civil Procedure.

(e) Nothing in this section shall restrict any right which any person (or class of persons) may have under any statute or common law to seek enforcement of any emission standard or limitation or to seek any other relief (including relief against the Administrator or a State agency).

Nothing in this section or in any other law of the United States shall be construed to prohibit, exclude, or restrict any State, local, or interstate authority from—

(1) bringing any enforcement action or obtaining any judicial remedy or sanction in any State or local court, or

(2) bringing any administrative enforcement action or obtaining any administrative remedy or sanction in any State or local administrative agency, department or instrumentality,

against the United States, any department, agency, or instrumentality thereof, or any officer, agent, or employee thereof under State or local law respecting control and abatement of air pollution. For provisions requiring compliance by the United States, departments, agencies, instrumentalities,

officers, agents, and employees in the same manner as nongovernmental entities, see section 118.

(f) For purposes of this section, the term “emission standard or limitation under this Act” means—

(1) a schedule or timetable of compliance, emission limitation, standard of performance or emission standard, or

(2) a control or prohibition respecting a motor vehicle fuel or fuel additive, which is in effect under this Act (including a requirement applicable by reason of section 118) or under an applicable implementation plan.

(3) any condition or requirement of a permit under part C of title I (relating to significant deterioration of air quality) or part D of title I (relating to nonattainment), section 119 (relating to primary nonferrous smelter orders), any condition or requirement under an applicable implementation plan relating to transportation control measures, air quality maintenance plans, vehicle inspection and maintenance programs or vapor recovery requirements, section 211(e) and (f) (relating to fuels and fuel additives), section 169A (relating to visibility protection), any condition or requirement under title VI (relating to ozone protection) or any requirement under section 111 or 112 (without regard to whether such requirement is expressed as an emission standard or otherwise); or

(4) any other standard, limitation, or schedule established under any permit issued pursuant to title V or under any applicable State implementation plan approved by the Administrator, any permit term or condition, and any requirement to obtain a permit as a condition of operations.

(g) **PENALTY FUND.**—(1) Penalties received under subsection (a) shall be deposited in a special fund in the United States Treasury for licensing and other services. Amounts in such fund are authorized to be appropriated and shall remain available until expended, for use by the Administrator to finance air compliance and enforcement activities. The Administrator shall annually report to the Congress about the sums deposited into the fund, the sources thereof, and the actual and proposed uses thereof.

(2) Notwithstanding paragraph (1) the court in any action under this subsection to apply civil penalties shall have discretion to order that such civil penalties, in lieu of being deposited in the fund referred to in paragraph (1), be used in beneficial mitigation projects which are consistent with this Act and enhance the public health or the environment. The court shall obtain the view of the Administrator in exercising such discretion and selecting any such projects. The amount of any such payment in any such action shall not exceed \$100,000.

[¶ 2305]

Sec. 305. REPRESENTATION IN LITIGATION

(a) The Administrator shall request the Attorney General to appear and represent him in any civil action instituted under this Act to which the Administrator is a party. Unless the Attorney General notifies the Administrator that he will appear in such action, within a reasonable time, attorneys appointed by the Administrator shall appear and represent him.

(b) In the event the Attorney General agrees to appear and represent the Administrator in any such action, such representation shall be conducted in accordance with, and shall include participation by attorneys appointed by the Administrator to the extent authorized by, the memorandum of understanding between the Department of Justice and the Environmental Protection Agency, dated June 13, 1977, respecting representation of the agency by the department in civil litigation.

[¶ 2306]

Sec. 306. FEDERAL PROCUREMENT

(a) No Federal agency may enter into any contract with any person who is convicted of any offense under section 113(c) for the procurement of goods, materials, and services to perform such contract at any facility at which the violation which gave rise to such conviction occurred if such facility is owned, leased, or supervised by such person. The prohibition in the preceding sentence shall continue until the Administrator certifies that the condition giving rise to such a conviction has been corrected. For convictions arising under section 113(c)(2), the condition giving rise to the conviction also shall be considered to include any substantive violation of this Act associated with the violation of 113(c)(2). The Administrator may extend this prohibition to other facilities owned or operated by the convicted person.

(b) The Administrator shall establish procedures to provide all Federal agencies with the notification necessary for the purposes of subsection (a).

(c) In order to implement the purposes and policy of this Act to protect and enhance the quality of the Nation's air, the President shall, not more than 180 days after enactment of the Clean Air Amendments of 1970 cause to be issued an order (1) requiring each Federal agency authorized to enter into contracts and each Federal agency which is empowered to extend Federal assistance by way of grant, loan, or contract to effectuate the purpose and policy of this Act in such contracting or assistance activities, and (2) setting forth procedures, sanctions, penalties, and such other provisions, as the President determines necessary to carry out such requirement.

(d) The President may exempt any contract, loan, or grant from all or part of the provisions of this section where he determines such exemption is necessary in the paramount interest of the United States and he shall notify the Congress of such exemption.

(e) The President shall annually report to the Congress on measures taken toward implementing the purpose and intent of this section, including

but not limited to the progress and problems associated with implementation of this section.

[¶ 2307]

Sec. 307. GENERAL PROVISION RELATING TO ADMINISTRATIVE PROCEEDINGS AND JUDICIAL REVIEW

(a) In connection with any determination under section 110(f), or for purposes of obtaining information under section 202(b)(4) or 211(c)(3), any investigation, monitoring, reporting requirement, entry, compliance inspection, or administrative enforcement proceeding under the Act (including but not limited to section 113, section 114, section 120, section 129, section 167, section 205, section 206, section 208, section 303, or section 306), the Administrator may issue subpoenas for the attendance and testimony of witnesses and the production of relevant papers, books, and documents, and he may administer oaths. Except for emission data, upon a showing satisfactory to the Administrator by such owner or operator that such papers, books, documents, or information or particular part thereof, if made public, would divulge trade secrets or secret processes of such owner or operator, the Administrator shall consider such record, report, or information or particular portion thereof confidential in accordance with the purposes of section 1905 of title 18 of the United States Code, except that such paper, book, document, or information may be disclosed to other officers, employees, or authorized representatives of the United States concerned with carrying out this Act, to persons carrying out the National Academy of Sciences' study and investigation provided for in section 202(c), or when relevant in any proceeding under this Act. Witnesses summoned shall be paid the same fees and mileage that are paid witnesses in the courts of the United States. In case of contumacy or refusal to obey a subpoena served upon any person under this subparagraph, the district court of the United States for any district in which such person is found or resides or transacts business, upon application by the United States and after notice to such person, shall have jurisdiction to issue an order requiring such person to appear and give testimony before the Administrator to appear and produce papers, books, and documents before the Administrator, or both, and any failure to obey such order of the court may be punished by such court as a contempt thereof.

(b)(1) A petition for review of action of the Administrator in promulgating any national primary or secondary ambient air quality standard, any emission standard or requirement under section 112, any standard of performance or requirement under 111; any standard under section 202 (other than a standard required to be prescribed under section 202(b)(1)), any determination under section 202(b)(5), any control or prohibition under section 211, any standard under section 231, any rule issued under section 113, 119, or under section 120, or any other nationally applicable regulations promulgated, or final action taken, by the Administrator under this Act may be filed only in the United States Court of Appeals for the District of Columbia. A petition for review of the Administrator's action in approving or promulgating any implementation plan under section 110 or section 111(d), any order under section

111(j), under section 112, under section 119, or under section 120, or his action under [section] 119(c)(2)(A), (B), or (C) (as in effect before the date of enactment of the Clean Air Act Amendments of 1977) or under regulations thereunder, or revising regulations for enhanced monitoring and compliance certification programs under section 114(a)(3) of this Act, or any other final action of the Administrator under this Act (including any denial or disapproval by the Administrator under title I) which is locally or regionally applicable may be filed only in the United States Court of Appeals for the appropriate circuit. Notwithstanding the preceding sentence a petition for review of any action referred to in such sentence may be filed only in the United States Court of Appeals for the District of Columbia if such action is based on a determination of nationwide scope or effect and if in taking such action the Administrator finds and publishes that such action is based on such a determination. Any petition for review under this subsection shall be filed within sixty days from the date notice of such promulgation, approval, or action appears in the Federal Register, except that if such petition is based solely on grounds arising after such sixtieth day, then any petition for review under this subsection shall be filed within sixty days after such grounds arise. The filing of a petition for reconsideration by the Administrator of any otherwise final rule or action shall not affect the finality of such rule or action for purposes of judicial review nor extend the time within which a petition for judicial review of such rule or action under this section may be filed, and shall not postpone the effectiveness of such rule or action.

(2) Action of the Administrator with respect to which review could have been obtained under paragraph (1) shall not be subject to judicial review in civil or criminal proceedings for enforcement. Where a final decision by the Administrator defers performance of any nondiscretionary statutory action to a later time, any person may challenge the deferral pursuant to paragraph (1).

(c) In any judicial proceeding in which review is sought of a determination under this Act required to be made on the record after notice and opportunity for hearing, if any party applies to the court for leave to adduce additional evidence, and shows to the satisfaction of the court that such additional evidence is material and that there were reasonable grounds for the failure to adduce such evidence in the proceeding before the Administrator, the court may order such additional evidence (and evidence in rebuttal thereof) to be taken before the Administrator, in such manner and upon such terms and conditions as to the court may deem proper. The Administrator may modify his findings as to the facts, or make new findings, by reason of the additional evidence so taken and he shall file such modified or new findings, and his recommendation, if any, for the modification or setting aside of his original determination, with the return of such additional evidence.

(d)(1) This subsection applies to—

(A) the promulgation or revision of any national ambient air quality standard under section 109,

(B) the promulgation or revision of an implementation plan by the Administrator under section 110(c),

(C) the promulgation or revision of any standard of performance under section 111, or emission standard or limitation under section 112(d), any standard under section 112(f), or any regulation under section 112(g)(1)(D) and (F), or any regulation under section 112(m) or (n),

(D) the promulgation of any requirement for solid waste combustion under section 129,

(E) the promulgation or revision of any regulation pertaining to any fuel or fuel additive under section 211,

(F) the promulgation or revision of any aircraft emission standard under section 231,

(G) the promulgation or revision of any regulation under title IV (relating to control of acid deposition),

(H) promulgation or revision of regulations pertaining to primary nonferrous smelter orders under section 119 (but not including the granting or denying of any such order),

(I) promulgation or revision of regulations under title VI (relating to stratosphere and ozone protection),

(J) promulgation or revision of regulations under subtitle C of title I (relating to prevention of significant deterioration of air quality and protection of visibility),

(K) promulgation or revision of regulations under section 202 and test procedures for new motor vehicles or engines under section 206, and the revision of a standard under section 202(a)(3),

(L) promulgation or revision of regulations for noncompliance penalties under section 120,

(M) promulgation or revision of any regulations promulgated under section 207 (relating to warranties and compliance by vehicles in actual use),

(N) action of the Administrator under section 126 (relating to interstate pollution abatement),

(O) the promulgation or revision of any regulation pertaining to consumer and commercial products under section 183(e),

(P) the promulgation or revision of any regulation pertaining to field citations under section 113(d)(3),

(Q) the promulgation or revision of any regulation pertaining to urban buses or the clean-fuel vehicle, clean-fuel fleet, and clean fuel programs under part C of title II,

(R) the promulgation or revision of any regulation pertaining to nonroad engines or nonroad vehicles under section 213,

(S) the promulgation or revision of any regulation relating to motor vehicle compliance program fees under section 217,

(T) the promulgation or revision of any regulation under title IV (relating to acid deposition),

(U) the promulgation or revision of any regulation under section 183(f) pertaining to marine vessels, and

(V) such other actions as the Administrator may determine.

The provisions of section 553 through 557 and section 706 of title 5 of the United States Code shall not, except as expressly provided in this subsection, apply to actions to which this subsection applies. This subsection shall not apply in the case of any rule or circumstance referred to in subparagraphs (A) or (B) of subsection 553(b) of title 5 of the United States Code.

(2) Not later than the date of proposal of any action to which this subsection applies, the Administrator shall establish a rulemaking docket for such action (hereinafter in this subsection referred to as a "rule"). Whenever a rule applies only within a particular State, a second (identical) docket shall be simultaneously established in the appropriate regional office of the Environmental Protection Agency.

(3) In the case of any rule to which this subsection applies, notice of proposed rulemaking shall be published in the Federal Register, as provided under section 553(b) of title 5, United States Code, shall be accompanied by a statement of its basis and purpose and shall specify the period available for public comment (hereinafter referred to as the "comment period"). The notice of proposed rulemaking shall also state the docket number, the location or locations of the docket, and the times it will be open to public inspection. The statement of basis and purpose shall include a summary of—

(A) the factual data on which the proposed rule is based;

(B) the methodology used in obtaining the data and in analyzing the data; and

(C) the major legal interpretations and policy considerations underlying the proposed rule.

The statement shall also set forth or summarize and provide a reference to any pertinent findings, recommendations, and comments by the Scientific Review Committee established under section 109(d) and the National Academy of Sciences, and, if the proposal differs in any important respect from any of these recommendations, an explanation of the reasons for such differences. All data, information, and documents referred to in this paragraph on which the proposed rule relies shall be included in the docket on the date of publication of the proposed rule.

(4)(A) The rulemaking docket required under paragraph (2) shall be open for inspection by the public at reasonable times specified in the notice of proposed rulemaking. Any person may copy documents contained in the docket. The Administrator shall provide copying facilities which may be used at the expense of the person seeking copies, but the

Administrator may waive or reduce such expenses in such instances as the public interest requires. Any person may request copies by mail if the person pays the expenses, including personnel costs to do the copying.

(B)(i) Promptly upon receipt by the agency, all written comments and documentary information on the proposed rule received from any person for inclusion in the docket during the comment period shall be placed in the docket. The transcript of public hearings, if any, on the proposed rule shall also be included in the docket promptly upon receipt from the person who transcribed such hearings. All documents which become available after the proposed rule has been published and which the Administrator determines are of central relevance to the rulemaking shall be placed in the docket as soon as possible after their availability.

(ii) The drafts of proposed rules submitted by the Administrator to the Office of Management and Budget for any inter-agency review process prior to proposal of any such rule, all documents accompanying such drafts, and all written comments thereon by other agencies and all written responses to such written comments by the Administrator shall be placed in the docket no later than the date of proposal of the rule. The drafts of the final rule submitted for such review process prior to promulgation and all such written comments thereon, all documents accompanying such drafts, and written responses thereto shall be placed in the docket no later than the date of promulgation.

(5) In promulgating a rule to which this subsection applies (i) the Administrator shall allow any person to submit written comments, data, or documentary information; (ii) the Administrator shall give interested persons an opportunity for the oral presentation of data, views, or arguments, in addition to an opportunity to make written submissions; (iii) a transcript shall be kept of any oral presentation; and (iv) the Administrator shall keep the record of such proceeding open for thirty days after completion of the proceeding to provide an opportunity for submission of rebuttal and supplementary information.

(6)(A) The promulgated rule shall be accompanied by (i) a statement of basis and purpose like that referred to in paragraph (3) with respect to a proposed rule and (ii) an explanation of the reasons for any major changes in the promulgated rule from the proposed rule.

(B) The promulgated rule shall also be accompanied by a response to each of the significant comments, criticisms, and new data submitted in written or oral presentations during the comment period.

(C) The promulgated rule may not be based (in part or whole) on any information or data which has not been placed in the docket as of the date of such promulgation.

(7)(A) The record for judicial review shall consist exclusively of the material referred to in paragraph (3), clause (i) of paragraph (4)(B), and subparagraphs (A) and (B) of paragraph (6).

(B) Only an objection to a rule or procedure which was raised with reasonable specificity during the period for public comment (including any public hearing) may be raised during judicial review. If the person raising an objection can demonstrate to the Administrator that it was impracticable to raise such objection within such time or if the grounds for such objection arose after the period for public comment (but within the time specified for judicial review) and if such objection is of central relevance to the outcome of the rule, the Administrator shall convene a proceeding for reconsideration of the rule and provide the same procedural rights as would have been afforded had the information been available at the time the rule was proposed. If the Administrator refuses to convene such a proceeding, such person may seek review of such refusal in the United States court of appeals for the appropriate circuit (as provided in subsection (b)). Such reconsideration shall not postpone the effectiveness of the rule. The effectiveness of the rule may be stayed during such reconsideration, however, by the Administrator or the court for a period not to exceed three months.

(8) The sole forum for challenging procedural determinations made by the Administrator under this subsection shall be in the United States court of appeals for the appropriate circuit (as provided in subsection (b)) at the time of the substantive review of the rule. No interlocutory appeals shall be permitted with respect to such procedural determinations. In reviewing alleged procedural errors, the court may invalidate the rule only if the errors were so serious and related to matters of such central relevance to the rule that there is a substantial likelihood that the rule would have been significantly changed if such errors had not been made.

(9) In the case of review of any action of the Administrator to which this subsection applies, the court may reverse any such action found to be—

(A) arbitrary, capricious, an abuse of discretion, or otherwise not in accordance with law;

(B) contrary to constitutional right, power, privilege, or immunity;

(C) in excess of statutory jurisdiction, authority, or limitations, or short of statutory right; or

(D) without observance of procedure required by law, if (i) such failure to observe such procedure is arbitrary or capricious, (ii) the requirement of paragraph (7)(B) has been met, and (iii) the condition of the last sentence of paragraph (8) is met.

(10) Each statutory deadline for promulgation of rules to which this subsection applies which requires promulgation less than six months after

date of proposal may be extended to not more than six months after date of proposal by the Administrator upon a determination that such extension is necessary to afford the public, and the agency, adequate opportunity to carry out the purposes of this subsection.

(11) The requirements of this subsection shall take effect with respect to any rule the proposal of which occurs after ninety days after the date of enactment of the Clean Air Act Amendments of 1977.

(e) Nothing in this Act shall be construed to authorize judicial review of regulations or orders of the Administrator under this Act, except as provided in this section.

(f) In any judicial proceeding under this section, the court may award costs of litigation (including reasonable attorney and expert witness fees) whenever it determines that such award is appropriate.

(g) In any action respecting the promulgation of regulations under section 120 or the administration or enforcement of section 120 no court shall grant any stay, injunctive, or similar relief before final judgment by such court in such action.

(h) PUBLIC PARTICIPATION.—It is the intent of Congress that, consistent with the policy of the Administrative Procedures Act, the Administrator in promulgating any regulation under this Act, including a regulation subject to a deadline, shall ensure a reasonable period for public participation of at least 30 days, except as otherwise expressly provided in section 107(d), 172(a), 181(a) and (b), and 186(a) and (b).

[¶ 2308]

Sec. 308. MANDATORY LICENSING

Whenever the Attorney General determines, upon application of the Administrator—

(1) that—

(A) in the implementation of the requirements of section 111, 112, or 202 of this Act, a right under any United States letters patent, which is being used or intended for public or commercial use and not otherwise reasonably available, is necessary to enable any person required to comply with such limitation to so comply, and

(B) there are no reasonable alternative methods to accomplish such purpose, and

(2) that the unavailability of such right may result in a substantial lessening of competition or tendency to create a monopoly in any line of commerce in any section of the country,

the Attorney General may so certify to a district court of the United States, which may issue an order requiring the person who owns such patent to license it on such reasonable terms and conditions as the court, after hearing, may determine. Such certification may be made to the district court for the district in which the person owning the patent resides, does business, or is found.

[¶ 2309]

Sec. 309. POLICY REVIEW

(a) The Administrator shall review and comment in writing on the environmental impact of any matter relating to duties and responsibilities granted pursuant to this Act or other provisions of the authority of the Administrator, contained in any (1) legislation proposed by any Federal department or agency, (2) newly authorized Federal projects for construction and any major Federal agency action (other than a project for construction) to which section 102(2)(C) of Public Law 91-190 applies, and (3) proposed regulations published by any department or agency of the Federal Government. Such written comment shall be made public at the conclusion of any such review.

(b) In the event the Administrator determines that any such legislation, action, or regulation is unsatisfactory from the standpoint of public health or welfare or environmental quality, he shall publish his determination and the matter shall be referred to the Council on Environmental Quality.

[¶ 2310]

Sec. 310. OTHER AUTHORITY NOT AFFECTED

(a) Except as provided in subsection (b) of this section, this Act shall not be construed as superseding or limiting the authorities and responsibilities, under any other provision of law, of the Administrator or any other Federal officer, department, or agency.

(b) No appropriation shall be authorized or made under section 301, 311, or 314 of the Public Health Service Act for any fiscal year after the fiscal year ending June 30, 1964, for any purpose for which appropriations may be made under authority of this Act.

[¶ 2311]

Sec. 311. RECORDS AND AUDIT

(a) Each recipient of assistance under this Act shall keep such records as the Administrator shall prescribe, including records which fully disclose the amount and disposition by such recipient of the proceeds of such assistance, the total cost of the project or undertaking in connection with which such assistance is given or used, and the amount of that portion of the cost of the project or undertaking supplied by other sources, and such other records as will facilitate an effective audit.

(b) The Administrator and the Comptroller General of the United States, or any of their duly authorized representatives, shall have access for the purpose of audit and examinations to any books, documents, papers, and records of the recipients that are pertinent to the grants received under this Act.

[¶ 2312]

Sec. 312. ECONOMIC IMPACT ANALYSES

(a) The Administrator, in consultation with the Secretary of Commerce, the Secretary of Labor, and the Council on Clean Air Compliance Analysis (as established under subsection (f) of this section), shall conduct a comprehensive analysis of the impact of this Act on the public health, economy, and environment of the United States. In performing such analysis, the Administrator should consider the costs, benefits and other effects associated with compliance with each standard issued for—

(1) a criteria air pollutant subject to a standard issued under section 109;

(2) a hazardous air pollutant listed under section 112, including any technology-based standard and any risk-based standard for such pollutant;

(3) emissions from mobile sources regulated under title II of this Act;

(4) a limitation under this Act for emissions of sulfur dioxide or nitrogen oxides;

(5) a limitation under title VI of this Act on the production of any ozone-depleting substance; and

(6) any other section of this Act.

(b) In describing the benefits of a standard described in subsection (a), the Administrator shall consider all of the economic, public health, and environmental benefits of efforts to comply with such standard. In any case where numerical values are assigned to such benefits, a default assumption of zero value shall not be assigned to such benefits unless supported by specific data. The Administrator shall assess how benefits are measured in order to assure that damage to human health and the environment is more accurately measured and taken into account.

(c) In describing the costs of a standard described in subsection (a), the Administrator shall consider the effects of such standard on employment, productivity, cost of living, economic growth, and the overall economy of the United States.

(d) Not later than 12 months after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator, in consultation with the Secretary of Commerce, the Secretary of Labor, and the Council on Clean Air Compliance Analysis, shall submit a report to the Congress that summarizes the results of the analysis described in subsection (a), which reports—

(1) all costs incurred previous to the date of enactment of the Clean Air Act Amendments of 1990 in the effort to comply with such standards; and

(2) all benefits that have accrued to the United States as a result of such costs.

(e) Not later than 24 months after the date of enactment of the Clean Air Act Amendments of 1990, and every 24 months thereafter, the Administrator, in consultation with the Secretary of Commerce, the Secretary of Labor, and the Council on Clean Air Compliance Analysis, shall submit a report to the Congress that updates the report issued pursuant to subsection (d), and which, in addition, makes projections into the future regarding expected costs, benefits, and other effects of compliance with standards pursuant to this Act as listed in subsection (a).

(f) Not later than 6 months after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator, in consultation with the Secretary of Commerce and the Secretary of Labor, shall appoint an Advisory Council on Clean Air Compliance Analysis of not less than nine members (hereafter in this section referred to as the "Council"). In appointing such members, the Administrator shall appoint recognized experts in the fields of the health and environmental effects of air pollution, economic analysis, environmental sciences, and such other fields that the Administrator determines to be appropriate.

(g) The Council shall—

(1) review the data to be used for any analysis required under this section and make recommendations to the Administrator on the use of such data;

(2) review the methodology used to analyze such data and make recommendations to the Administrator on the use of such methodology; and

(3) prior to the issuance of a report required under subsection (d) or (e), review the findings of such report, and make recommendations to the Administrator concerning the validity and utility of such findings.

[¶ 2313]

Sec. 313. ADDITIONAL REPORTS TO CONGRESS—[Repealed]

[¶ 2314]

Sec. 314. LABOR STANDARDS

The Administrator shall take such action as may be necessary to insure that all laborers and mechanics employed by contractors or subcontractors on projects assisted under this Act shall be paid wages at rates not less than those prevailing for the same type of work on similar construction in the locality as determined by the Secretary of Labor, in accordance with the Act of March 3, 1931, as amended, known as the Davis-Bacon Act (46 Stat. 1494; 40 U. S. C. 276a—276a-5). The Secretary of Labor shall have, with respect to the labor standards specified in this subsection, the authority and functions set forth in Reorganization Plan Numbered 14 of 1950 (15 F. R. 3176; 64 Stat. 1267) and section 2 of the Act of June 13, 1934, as amended (48 Stat. 948; 40 U. S. C. 276c).

¶ 2313 Sec. 313

[¶ 2315]

Sec. 315. SEPARABILITY

If any provision of this Act, or the application of any provision of this Act to any person or circumstance, is held invalid, the application of such provision to other persons or circumstances, and the remainder of this Act, shall not be affected thereby.

[¶ 2316]

Sec. 316. SEWAGE TREATMENT GRANTS

(a) No grant which the Administrator is authorized to make to any applicant for construction of sewage treatment works in any area in any State may be withheld, conditioned, or restricted by the Administrator on the basis of any requirement of this Act except as provided in subsection (b).

(b) The Administrator may withhold, condition, or restrict the making of any grant for construction referred to in subsection (a) only if he determines that—

(1) such treatment works will not comply with applicable standards under section 111 or 112,

(2) the State does not have in effect, or is not carrying out, a State implementation plan approved by the Administrator which expressly quantifies and provides for the increase in emissions of each air pollutant (from stationary and mobile sources in any area to which either part C or part D of title I applies for such pollutant) which increase may reasonably be anticipated to result directly or indirectly from the new sewage treatment capacity which would be created by such construction.

(3) the construction of such treatment works would create new sewage treatment capacity which—

(A) may reasonably be anticipated to cause or contribute to, directly or indirectly, an increase in emissions of any air pollutant in excess of the increase provided for under the provisions referred to in paragraph (2) for any such area, or

(B) would otherwise not be in conformity with the applicable implementation plan, or

(4) such increase in emissions would interfere with, or be inconsistent with, the applicable implementation plan for any other State.

In the case of construction of a treatment works which would result, directly or indirectly, in an increase in emissions of any air pollutant from stationary and mobile sources in an area to which part D of title I applies, the quantification of emissions referred to in paragraph (2) shall include the emissions of any such pollutant resulting directly or indirectly from areawide and nonmajor stationary source growth (mobile and stationary) for each such area.

(c) Nothing in this section shall be construed to amend or alter any provision of the National Environmental Policy Act or to affect any determi-

nation as to whether or not the requirements of such Act have been met in the case of the construction of any sewage treatment works.

[¶ 2317]

Sec. 317. ECONOMIC IMPACT ASSESSMENT

(a) This section applies to action of the Administrator in promulgating or revising—

- (1) any new source standard of performance under section 111,
- (2) any regulation under section 111(d),
- (3) any regulation under part B of title I (relating to ozone and stratosphere protection),
- (4) any regulation under part C of title I (relating to prevention of significant deterioration of air quality),
- (5) any regulation establishing emission standards under section 202 and any other regulation promulgated under that section,
- (6) any regulation controlling or prohibiting any fuel or fuel additive under section 211(c), and
- (7) any aircraft emission standard under section 231.

Nothing in this section shall apply to any standard or regulation described in paragraphs (1) through (7) of this subsection unless the notice of proposed rulemaking in connection with such standard or regulation is published in the Federal Register after the date ninety days after the date of enactment of this section. In the case of revisions of such standards or regulations, this section shall apply only to revisions which the Administrator determines to be substantial revisions.

(b) Before publication of notice of proposed rulemaking with respect to any standard or regulation to which this section applies, the Administrator shall prepare an economic impact assessment respecting such standard or regulation. Such assessment shall be included in the docket required under section 307(d)(2) and shall be available to the public as provided in section 307(d)(4). Notice of proposed rulemaking shall include notice of such availability together with an explanation of the extent and manner in which the Administrator has considered the analysis contained in such economic impact assessment in proposing the action. The Administrator shall also provide such an explanation in his notice of promulgation of any regulation or standard referred to in subsection (a). Each such explanation shall be part of the statements of basis and purpose required under sections 307(d)(3) and 307(d)(6).

(c) Subject to subsection (d), the assessment required under this section with respect to any standard or regulation shall contain an analysis of—

- (1) the costs of compliance with any such standard or regulation, including extent to which the costs of compliance will vary depending on
 - (A) the effective date of the standard or regulation, and
 - (B) the develop-

ment of less expensive, more efficient means or methods of compliance with the standard or regulation;

(2) the potential inflationary or recessionary effects of the standard or regulation;

(3) the effects on competition of the standard or regulation with respect to small business;

(4) the effects of the standard or regulation on consumer costs; and

(5) the effects of the standard or regulation on energy use.

Nothing in this section shall be construed to provide that the analysis of the factors specified in this subsection affects or alters the factors which the Administrator is required to consider in taking any action referred to in subsection (a).

(d) The assessment required under this section shall be as extensive as practicable, in the judgment of the Administrator taking into account the time and resources available to the Environmental Protection Agency and other duties and authorities which the Administrator is required to carry out under this Act.

(e) Nothing in this section shall be construed—

(1) to alter the basis on which a standard or regulation is promulgated under this Act;

(2) to preclude the Administrator from carrying out his responsibility under this Act to protect public health and welfare; or

(3) to authorize or require any judicial review of any such standard or regulation, or any stay or injunction of the proposal, promulgation, or effectiveness of such standard or regulation on the basis of failure to comply with this section.

(f) The requirements imposed on the Administrator under this section shall be treated as nondiscretionary duties for purposes of section 304(a)(2), relating to citizen suits. The sole method for enforcement of the Administrator's duty under this section shall be by bringing a citizen suit under such section 304(a)(2) for a court order to compel the Administrator to perform such duty. Violation of any such order shall subject the Administrator to penalties for contempt of court.

(g) In the case of any provision of this Act in which costs are expressly required to be taken into account, the adequacy or inadequacy of any assessment required under this section may be taken into consideration, but shall not be treated for purposes of judicial review of any such provision as conclusive with respect to compliance or noncompliance with the requirement of such provision to take cost into account.

[¶ 2318]

Sec. 318. FINANCIAL DISCLOSURE; CONFLICTS OF INTEREST—[Repealed]

[¶ 2319]

Sec. 319. AIR QUALITY MONITORING

Not later than one year after the date of enactment of the Clean Air Act Amendments of 1977 and after notice and opportunity for public hearing, the Administrator shall promulgate regulations establishing an air quality monitoring system throughout the United States which—

(1) utilizes uniform air quality monitoring criteria and methodology and measures such air quality according to a uniform air quality index,

(2) provides for air quality monitoring stations in major urban areas and other appropriate areas throughout the United States to provide monitoring such as will supplement (but not duplicate) air quality monitoring carried out by the States required under any applicable implementation plan,

(3) provides for daily analysis and reporting of air quality based upon such uniform air quality index, and

(4) provides for recordkeeping with respect to such monitoring data and for periodic analysis and reporting to the general public by the Administrator with respect to air quality based upon such data.

The operation of such air quality monitoring system may be carried out by the Administrator or by such other departments, agencies, or entities of the Federal Government (including the National Weather Service) as the President may deem appropriate. Any air quality monitoring system required under any applicable implementation plan under section 110 shall, as soon as practicable following promulgation of regulations under this section, utilize the standard criteria and methodology, and measure air quality according to the standard index, established under such regulations.

[¶ 2320]

Sec. 320. STANDARDIZED AIR QUALITY MODELING

(a) Not later than six months after the date of the enactment of the Clean Air Act Amendments of 1977, and at least every three years thereafter, the Administrator shall conduct a conference on air quality modeling. In conducting such conference, special attention shall be given to appropriate modeling necessary for carrying out part C of title I (relating to prevention of significant deterioration of air quality).

(b) The conference conducted under this section shall provide for participation by the National Academy of Sciences, representatives of State and local air pollution control agencies, and appropriate Federal agencies, including the National Science Foundation; the National Oceanic and Atmospheric Administration, and the National Institute of Standards and Technology.

(c) Interested persons shall be permitted to submit written comments and a verbatim transcript of the conference proceedings shall be maintained.

(d) The comments submitted and the transcript maintained pursuant to subsection (c) shall be included in the docket required to be established for purposes of promulgating or revising any regulation relating to air quality modeling under part C of title I.

[¶ 2321]

Sec. 321. EMPLOYMENT EFFECTS

(a) The Administrator shall conduct continuing evaluations of potential loss or shifts of employment which may result from the administration or enforcement of the provision of this Act and applicable implementation plans, including where appropriate, investigating threatened plant closures or reductions in employment allegedly resulting from such administration or enforcement.

(b) Any employee, or any representative of such employee, who is discharged or laid off, threatened with discharge or layoff, or whose employment is otherwise adversely affected or threatened to be adversely affected because of the alleged results of any requirement imposed or proposed to be imposed under this Act, including any requirement applicable to Federal facilities and any requirement imposed by a State or political subdivision thereof, may request the Administrator to conduct a full investigation of the matter. Any such request shall be reduced to writing, shall set forth with reasonable particularity the grounds for the request, and shall be signed by the employee, or representative of such employee, making the request. The Administrator shall thereupon investigate the matter and, at the request of any party, shall hold public hearings on not less than five days' notice. At such hearings, the Administrator shall require the parties, including the employer involved, to present information relating to the actual or potential effect of such requirements on employment and the detailed reasons or justification therefor. If the Administrator determines that there are no reasonable grounds for conducting a public hearing he shall notify (in writing) the party requesting such hearing of such a determination and the reasons therefor. If the Administrator does convene such a hearing, the hearing shall be on the record. Upon receiving the report of such investigation, the Administrator shall make findings of fact as to the effect of such requirements on employment and on the alleged actual or potential discharge, layoff, or other adverse effect on employment, and shall make such recommendations as he deems appropriate. Such report, findings, and recommendations shall be available to the public.

(c) In connection with any investigation or public hearing conducted under subsection (b) of this section or as authorized in section 119 (relating to primary nonferrous smelter orders), the Administrator may issue subpoenas for the attendance and testimony of witnesses and the production of relevant papers, books and documents, and he may administer oaths. Except for emission data, upon a showing satisfactory to the Administrator by such owner or operator that such papers, books, documents, or information or particular part thereof, if made public, would divulge trade secrets or secret processes of such owner, or operator, the Administrator shall consider such record, report, or information or particular portion thereof confidential in accordance with

the purposes of section 1905 of title 18 of the United States Code, except that such paper, book, document, or information may be disclosed to other officers, employees, or authorized representatives of the United States concerned with carrying out this Act, or when relevant in any proceeding under this Act. Witnesses summoned shall be paid the same fees and mileage that are paid witnesses in the courts of the United States. In cases of contumacy or refusal to obey a subpoena served upon any person under this subparagraph, the district court of the United States for any district in which such person is found or resides or transacts business, upon application by the United States and after a notice to such person, shall have jurisdiction to issue an order requiring such person to appear and give testimony before the Administrator, to appear and produce papers, books, and documents before the Administrator, or both, and any failure to obey such order of the court may be punished by such court as a contempt thereof.

(d) Nothing in this section shall be construed to require or authorize the Administrator, the States, or political subdivisions thereof, to modify or withdraw any requirement imposed or proposed to be imposed under this Act.

[¶ 2322]

Sec. 322. EMPLOYEE PROTECTION

(a) No employer may discharge any employee or otherwise discriminate against any employee with respect to his compensation, terms, conditions, or privileges of employment because the employee (or any person acting pursuant to a request of the employee)—

(1) commenced, caused to be commenced, or is about to commence or cause to be commenced a proceeding under this Act or a proceeding for the administration or enforcement of any requirement imposed under this Act or under any applicable implementation plan,

(2) testified or is about to testify in any such proceeding, or

(3) assisted or participated or is about to assist or participate in any manner in such a proceeding or in any other action to carry out the purposes of this Act.

(b)(1) Any employee who believes that he has been discharged or otherwise discriminated against by any person in violation of subsection (a) may, within thirty days after such violation occurs, file (or have any person file on his behalf) a complaint with the Secretary of Labor (hereinafter in this subsection referred to as the "Secretary") alleging such discharge or discrimination. Upon receipt of such a complaint, the Secretary shall notify the person named in the complaint of the filing of the complaint.

(2)(A) Upon receipt of a complaint filed under paragraph (1), the Secretary shall conduct an investigation of the violation alleged in the complaint. Within thirty days of the receipt of such complaint, the Secretary shall complete such investigation and shall notify in writing the complainant (and any person acting in his behalf) and the person alleged to have committed such violation of the results of the investigation conducted pursuant to this subparagraph. Within ninety days of the

receipt of such complaint the Secretary shall, unless the proceeding on the complaint is terminated by the Secretary on the basis of a settlement entered into by the Secretary and the person alleged to have committed such violation, issue an order either providing the relief prescribed by subparagraph (B) or denying the complaint. An order of the Secretary shall be made on the record after notice and opportunity for public hearing. The Secretary may not enter into a settlement terminating a proceeding on a complaint without the participation and consent of the complainant.

(B) If, in response to a complaint filed under paragraph (1), the Secretary determines that a violation of subsection (a) has occurred, the Secretary shall order the person who committed such violation to (i) take affirmative action to abate the violation, and (ii) reinstate the complainant to his former position together with the compensation (including back pay), terms, conditions, and privileges of his employment, and the Secretary may order such person to provide compensatory damages to the complainant. If an order is issued under this paragraph, the Secretary, at the request of the complainant, shall assess against the person against whom the order is issued a sum equal to the aggregate amount of all costs and expenses (including attorneys' and expert witness fees) reasonably incurred, as determined by the Secretary, by the complainant for, or in connection with, the bringing of the complaint upon which the order was issued.

(c)(1) Any person adversely affected or aggrieved by an order issued under subsection (b) may obtain review of the order in the United States court of appeals for the circuit in which the violation, with respect to which the order was issued, allegedly occurred. The petition for review must be filed within sixty days from the issuance of the Secretary's order. Review shall conform to chapter 7 of title 5 of the United States Code. The commencement of proceedings under this subparagraph shall not, unless ordered by the court, operate as a stay of the Secretary's order.

(2) An order of the Secretary with respect to which review could have been obtained under paragraph (1) shall not be subject to judicial review in any criminal or other civil proceeding.

(d) Whenever a person has failed to comply with an order issued under subsection (b)(2), the Secretary may file a civil action in the United States district court for the district in which the violation was found to occur to enforce such order. In actions brought under this subsection, the district courts shall have jurisdiction to grant all appropriate relief including, but not limited to, injunctive relief, compensatory, and exemplary damages.

(e)(1) Any person on whose behalf an order was issued under paragraph (2) of subsection (b) may commence a civil action against the person to whom such order was issued to require compliance with such order. The appropriate United States district court shall have jurisdiction, without regard to the amount in controversy or the citizenship of the parties, to enforce such order.

(2) The court, in issuing any final order under this subsection, may award costs of litigation (including reasonable attorney and expert witness fees) to any party whenever the court determines such award is appropriate.

(f) Any nondiscretionary duty imposed by this section shall be enforceable in a mandamus proceeding brought under section 1361 of title 28 of the United States Code.

(g) Subsection (a) shall not apply with respect to any employee who, acting without direction from his employer (or the employer's agent), deliberately causes a violation of any requirement of this Act.

[¶ 2323]

Sec. 323. COST OF EMISSION CONTROL FOR CERTAIN VAPOR RECOVERY TO BE BORNE BY OWNER OF RETAIL OUTLET

(a) The regulations under this Act applicable to vapor recovery with respect to mobile source fuels at retail outlets of such fuels shall provide that the cost of procurement and installation of such vapor recovery shall be borne by the owner of such outlet (as determined under such regulations). Except as provided in subsection (b), such regulations shall provide that no lease of a retail outlet by the owner thereof which is entered into or renewed after the date of enactment of the Clean Air Act Amendments of 1977 may provide for a payment by the lessee of the cost of procurement and installation of vapor recovery equipment. Such regulations shall also provide that the cost of procurement and installation of vapor recovery equipment may be recovered by the owner of such outlet by means of price increases in the cost of any product sold by such owner, notwithstanding any provision of law.

[¶ 2324]

Sec. 324. VAPOR RECOVERY FOR SMALL BUSINESS MARKETERS OF PETROLEUM PRODUCTS

(a) The regulations under this Act applicable to vapor recovery from fueling of motor vehicles at retail outlets of gasoline shall not apply to any outlet owned by an independent small business marketer of gasoline having monthly sales of less than 50,000 gallons. In the case of any other outlet owned by an independent small business marketer, such regulations shall provide, with respect to independent small business marketers of gasoline, for a three-year phase-in period for the installation of such vapor recovery equipment at such outlets under which such marketers shall have—

(1) 33 percent of such outlets in compliance at the end of the first year during which such regulations apply to such marketers,

(2) 66 percent at the end of such second year, and

(3) 100 percent at the end of the third year.

(b) Nothing in subsection (a) shall be construed to prohibit any State from adopting or enforcing, with respect to independent small business marketers of gasoline having monthly sales of less than 50,000 gallons, any vapor

recovery requirements for mobile source fuels at retail outlets. Any vapor recovery requirement which is adopted by a State and submitted to the Administrator as part of its implementation plan may be approved and enforced by the Administrator as part of the applicable implementation plan for that State.

(c) For purposes of this section, an independent small business marketer of gasoline is a person engaged in the marketing of gasoline who would be required to pay for procurement and installation of vapor recovery equipment under section 324 of this Act or under regulations of the Administrator, unless such person—

(1)(A) is a refiner, or

(B) controls, is controlled by, or is under common control with, a refiner,

(C) is otherwise directly or indirectly affiliated (as determined under the regulations of the Administrator) with a refiner or with a person who controls, is controlled by, or is under a common control with a refiner (unless the sole affiliation referred to herein is by means of a supply contract or an agreement or contract to use a trademark, trade name, service mark, or other identifying symbol or name owned by such refiner or any such person), or

(2) receives less than 50 percent of his annual income from refining or marketing of gasoline.

For the purpose of this section, the term “refiner” shall not include any refiner whose total refinery capacity (including the refinery capacity of any person who controls, is controlled by, or is under common control with, such refiner) does not exceed 65,000 barrels per day. For purposes of this section, “control” of a corporation means ownership of more than 50 percent of its stock.

[¶ 2325]

Sec. 325. EXEMPTIONS FOR CERTAIN TERRITORIES

(a)(1) Upon petition by the governor of Guam, American Samoa, [the Virgin Islands] or the Commonwealth of the Northern Mariana Islands, the Administrator is authorized to exempt any person or source or class of persons or sources in such territory from any requirement under this Act other than section 112 or any requirement under section 110 or part D necessary to attain or maintain a national primary ambient air quality standard. Such exemption may be granted if the Administrator finds that compliance with such requirement is not feasible or is unreasonable due to unique geographical, meteorological, or economic factors of such territory, or such other local factors as the Administrator deems significant. Any such petition shall be considered in accordance with section 307(d) and any exemption under this subsection shall be considered final action by the Administrator for the purposes of section 307(b).

(2) The Administrator shall promptly notify the Committees on Energy and Commerce and on Interior and Insular Affairs of the House

of Representatives and the Committees on Environment and Public Works and on Energy and Natural Resources of the Senate upon receipt of any petition under this subsection and of the approval or rejection of such petition and the basis for such action.

(b) Notwithstanding any other provision of this Act, any fossil fuel fired steam electric power plant operating within Guam as of the date of enactment of this section is hereby exempted from:

(1) any requirement of the new source performance standards relating to sulfur dioxide promulgated under section 111 as of such date of enactment; and

(2) any regulation relating to sulfur dioxide standards or limitations contained in a State implementation plan approved under section 110 as of such date of enactment; *Provided*, That such exemption shall expire eighteen months after such date of enactment unless the Administrator determines that such plant is making all emissions reductions practicable to prevent exceedances of the national ambient air quality standards for sulfur dioxide.

[¶ 2326]

Sec. 326. CONSTRUCTION OF CERTAIN CLAUSES

The parenthetical cross references in any provision of this Act to other provisions of the Act, or other provisions of law, where the words "relating to" or "pertaining to" are used, are made only for convenience, and shall be given no legal effect.

[¶ 2327]

Sec. 327. AUTHORIZATION OF APPROPRIATIONS

(a) IN GENERAL.—There are authorized to be appropriated to carry out this Act such sums as may be necessary for the 7 fiscal years commencing after the enactment of the Clean Air Act Amendments of 1990.

(b) GRANTS FOR PLANNING.—There are authorized to be appropriated (1) not more than \$50,000,000 to carry out section 175 beginning in fiscal year 1991, to be available until expended, to develop plan revisions required by subpart 2, 3, or 4 of part D of title I, and (2) not more than \$15,000,000 for each of the 7 fiscal years commencing after the enactment of the Clean Air Act Amendments of 1990 to make grants to the States to prepare implementation plans as required by subpart 2, 3, or 4 of part D of title I.

[¶ 2328]

Sec. 328. AIR POLLUTION FROM OUTER CONTINENTAL SHELF ACTIVITIES.

(a)(1) APPLICABLE REQUIREMENTS FOR CERTAIN AREAS.—Not later than 12 months after the enactment of the Clean Air Act Amendments of 1990, following consultation with the Secretary of the Interior and the Commandant of the United States Coast Guard, the Administrator, by rule, shall establish requirements to control air pollution from Outer Continental Shelf sources located offshore of the States along the Pacific, Arctic and Atlantic Coasts,

and along the United States Gulf Coast off the State of Florida eastward of longitude 87 degrees and 30 minutes ("OCS sources") to attain and maintain Federal and State ambient air quality standards and to comply with the provisions of part C of title I. For such sources located within 25 miles of the seaward boundary of such States, such requirements shall be the same as would be applicable if the source were located in the corresponding onshore area, and shall include, but not be limited to, State and local requirements for emission controls, emission limitations, offsets, permitting, monitoring, testing, and reporting. New OCS sources shall comply with such requirements on the date of promulgation and existing OCS sources shall comply on the date 24 months thereafter. The Administrator shall update such requirements as necessary to maintain consistency with onshore regulations. The authority of this subsection shall supersede section 5(a)(8) of the Outer Continental Shelf Lands Act but shall not repeal or modify any other Federal, State, or local authorities with respect to air quality. Each requirement established under this section shall be treated, for purposes of sections 113, 114, 116, 120, and 304, as a standard under section 111 and a violation of any such requirement shall be considered a violation of section 111(e).

(2) EXEMPTIONS.—The Administrator may exempt an OCS source from a specific requirement in effect under regulations under this subsection if the Administrator finds that compliance with a pollution control technology requirement is technically infeasible or will cause an unreasonable threat to health and safety. The Administrator shall make written findings explaining the basis of any exemption issued pursuant to this subsection and shall impose another requirement equal to or as close in stringency to the original requirement as possible. The Administrator shall ensure that any increase in emissions due to the granting of an exemption is offset by reductions in actual emissions, not otherwise required by this Act, from the same source or other sources in the area or in the corresponding onshore area. The Administrator shall establish procedures to provide for public notice and comment on exemptions proposed pursuant to this subsection.

(3) STATE PROCEDURES.—Each State adjacent to an OCS source included under this subsection may promulgate and submit to the Administrator regulations for implementing and enforcing the requirements of this subsection. If the Administrator finds that the State regulations are adequate, the Administrator shall delegate to that State any authority the Administrator has under this Act to implement and enforce such requirements. Nothing in this subsection shall prohibit the Administrator from enforcing any requirement of this section.

(4) DEFINITIONS.—For purposes of subsections (a) and (b)—

(A) OUTER CONTINENTAL SHELF.—The term "Outer Continental Shelf" has the meaning provided by section 2 of the Outer Continental Shelf Lands Act (43 U.S.C. 1331).

(B) CORRESPONDING ONSHORE AREA.—The term "corresponding onshore area" means, with respect to any OCS source, the onshore attainment or nonattainment area that is closest to the source,

unless the Administrator determines that another area with more stringent requirements with respect to the control and abatement of air pollution may reasonably be expected to be affected by such emissions. Such determination shall be based on the potential for air pollutants from the OCS source to reach the other onshore area and the potential of such air pollutants to affect the efforts of the other onshore area to attain or maintain any Federal or State ambient air quality standard or to comply with the provisions of part C of title I.

(C) OUTER CONTINENTAL SHELF SOURCE.—The terms “Outer Continental Shelf source” and “OCS source” include any equipment, activity, or facility which—

- (i) emits or has the potential to emit any air pollutant,
- (ii) is regulated or authorized under the Outer Continental Shelf Lands Act, and
- (iii) is located on the Outer Continental Shelf or in or on waters above the Outer Continental Shelf.

Such activities include, but are not limited to, platform and drill ship exploration, construction, development, production, processing, and transportation. For purposes of this subsection, emissions from any vessel servicing or associated with an OCS source, including emissions while at the OCS source or en route to or from the OCS source within 25 miles of the OCS source, shall be considered direct emissions from the OCS source.

(D) NEW AND EXISTING OCS SOURCES.—The term “new OCS source” means an OCS source which is a new source within the meaning of section 111(a). The term “existing OCS source” means any OCS source other than a new OCS source.

(b) REQUIREMENTS FOR OTHER OFFSHORE AREAS.—For portions of the United States Gulf Coast Outer Continental Shelf that are adjacent to the States not covered by subsection (a) which are Texas, Louisiana, Mississippi, and Alabama, the Secretary shall consult with the Administrator to assure coordination of air pollution control regulation for Outer Continental Shelf emissions and emissions in adjacent onshore areas. Concurrently with this obligation, the Secretary shall complete within 3 years of enactment of this section a research study examining the impacts of emissions from Outer Continental Shelf activities in such areas that fail to meet the national ambient air quality standards for either ozone or nitrogen dioxide. Based on the results of this study, the Secretary shall consult with the Administrator and determine if any additional actions are necessary. There are authorized to be appropriated such sums as may be necessary to provide funding for the study required under this section.

(c)(1) COASTAL WATERS.—The study report of section 112(n) of the Clean Air Act shall apply to the coastal waters of the United States to the same extent and in the same manner as such requirements apply to the Great Lakes, the Chesapeake Bay, and their tributary waters.

(2) The regulatory requirements of section 112(n) of the Clean Air Act shall apply to the coastal waters of the States which are subject to subsection (a) of this section, to the same extent and in the same manner as such requirements apply to the Great Lakes, the Chesapeake Bay, and their tributary waters.

[CCH Note: Provisions dealing with noise pollution are not reproduced.]

TITLE IV—Acid Deposition Control**[¶ 2401]****Sec. 401. FINDINGS AND PURPOSES.**

(a) FINDINGS.—The Congress finds that—

(1) the presence of acidic compounds and their precursors in the atmosphere and in deposition from the atmosphere represents a threat to natural resources, ecosystems, materials, visibility, and public health;

(2) the principal sources of the acidic compounds and their precursors in the atmosphere are emissions of sulfur and nitrogen oxides from the combustion of fossil fuels;

(3) the problem of acid deposition is of national and international significance;

(4) strategies and technologies for the control of precursors to acid deposition exist now that are economically feasible, and improved methods are expected to become increasingly available over the next decade;

(5) current and future generations of Americans will be adversely affected by delaying measures to remedy the problem;

(6) reduction of total atmospheric loading of sulfur dioxide and nitrogen oxides will enhance protection of the public health and welfare and the environment; and

(7) control measures to reduce precursor emissions from steam-electric generating units should be initiated without delay.

(b) PURPOSES.—The purpose of this title is to reduce the adverse effects of acid deposition through reductions in annual emissions of sulfur dioxide of ten million tons from 1980 emission levels, and, in combination with other provisions of this Act, of nitrogen oxides emissions of approximately two million tons from 1980 emission levels, in the forty-eight contiguous States and the District of Columbia. It is the intent of this title to effectuate such reductions by requiring compliance by affected sources with prescribed emission limitations by specified deadlines, which limitations may be met through alternative methods of compliance provided by an emission allocation and transfer system. It is also the purpose of this title to encourage energy conservation, use of renewable and clean alternative technologies, and pollution prevention as a long-range strategy, consistent with the provisions of this title, for reducing air pollution and other adverse impacts of energy production and use.

[¶ 2402]**Sec. 402. DEFINITIONS.**

As used in this title:

(1) The term “affected source” means a source that includes one or more affected units.

(2) The term "affected unit" means a unit that is subject to emission reduction requirements or limitations under this title.

(3) The term "allowance" means an authorization, allocated to an affected unit by the Administrator under this title, to emit, during or after a specified calendar year, one ton of sulfur dioxide.

(4) The term "baseline" means the annual quantity of fossil fuel consumed by an affected unit, measured in millions of British Thermal Units ("mmBtu's"), calculated as follows:

(A) For each utility unit that was in commercial operation prior to January 1, 1985, the baseline shall be the annual average quantity of mmBtu's consumed in fuel during calendar years 1985, 1986, and 1987, as recorded by the Department of Energy pursuant to Form 767. For any utility unit for which such form was not filed, the baseline shall be the level specified for such unit in the 1985 National Acid Precipitation Assessment Program (NAPAP) Emissions Inventory, Version 2, National Utility Reference File (NURF) or in a corrected data base as established by the Administrator pursuant to paragraph (3). For nonutility units, the baseline is the NAPAP Emissions Inventory, Version 2. The Administrator, in the Administrator's sole discretion, may exclude periods during which a unit is shutdown for a continuous period of four calendar months or longer, and make appropriate adjustments under this paragraph. Upon petition of the owner or operator of any unit, the Administrator may make appropriate baseline adjustments for accidents that caused prolonged outages.

(B) For any other nonutility unit that is not included in the NAPAP Emissions Inventory, Version 2, or a corrected data base as established by the Administrator pursuant to paragraph (3), the baseline shall be the annual average quantity, in mmBtu consumed in fuel by that unit, as calculated pursuant to a method which the administrator shall prescribe by regulation to be promulgated not later than eighteen months after enactment of the Clean Air Act Amendments of 1990.

(C) The Administrator shall, upon application or on his own motion, by December 31, 1991, supplement data needed in support of this title and correct any factual errors in data from which affected Phase II units' baselines or actual 1985 emission rates have been calculated. Corrected data shall be used for purposes of issuing allowances under the title. Such corrections shall not be subject to judicial review, nor shall the failure of the Administrator to correct an alleged factual error in such reports be subject to judicial review.

(5) The term "capacity factor" means the ratio between the actual electric output from a unit and the potential electric output from that unit.

(6) The term "compliance plan" means, for purposes of the requirements of this title, either—

(A) a statement that the source will comply with all applicable requirements under this title, or

(B) where applicable, a schedule and description of the method or methods for compliance and certification by the owner or operator that the source is in compliance with the requirements of this title.

(7) The term "continuous emission monitoring system" (CEMS) means the equipment as required by section 412, used to sample, analyze, measure, and provide on a continuous basis a permanent record of emissions and flow (expressed in pounds per million British thermal units (lbs/mmBtu), pounds per hour (lbs/hr) or such other form as the Administrator may prescribe by regulations under section 412).

(8) The term "existing unit" means a unit (including units subject to section 111) that commenced commercial operation before the date of enactment of the Clean Air Act Amendments of 1990. Any unit that commenced commercial operation before the date of enactment of the Clean Air Act Amendments of 1990 which is modified, reconstructed, or repowered after the date of enactment of the Clean Air Act Amendments of 1990 shall continue to be an existing unit for the purposes of this title. For the purposes of this title, existing units shall not include simple combustion turbines, or units which serve a generator with a nameplate capacity of 25MWe or less.

(9) The term "generator" means a device that produces electricity and which is reported as a generating unit pursuant to Department of Energy Form 860.

(10) The term "new unit" means a unit that commences commercial operation on or after the date of enactment of the Clean Air Act Amendments of 1990.

(11) The term "permitting authority" means the Administrator, or the State or local air pollution control agency, with an approved permitting program under part B of title III of the Act.

(12) The term "repowering" means replacement of an existing coal-fired boiler with one of the following clean coal technologies: atmospheric or pressurized fluidized bed combustion, integrated gasification combined cycle, magnetohydrodynamics, direct and indirect coal-fired turbines, integrated gasification fuel cells, or as determined by the Administrator, in consultation with the Secretary of Energy, a derivative of one or more of these technologies, and any other technology capable of controlling multiple combustion emissions simultaneously with improved boiler or generation efficiency and with significantly greater waste reduction relative to the performance of technology in widespread commercial use as of the date of enactment of the Clean Air Act Amendments of 1990. Notwithstanding the provisions of section 409(a), for the purpose of this title, the term "repowering" shall also include any oil and/or gas-fired unit which has been awarded clean coal technology demonstration funding as of January 1, 1991, by the Department of Energy.

(13) The term “reserve” means any bank of allowances established by the Administrator under this title.

(14) The term “State” means one of the 48 contiguous States and the District of Columbia.

(15) The term “unit” means a fossil fuel-fired combustion device.

(16) The term “actual 1985 emission rate”, for electric utility units, means the annual sulfur dioxide or nitrogen oxides emission rate in pounds per million Btu as reported in the NAPAP Emissions Inventory, Version 2, National Utility Reference File. For nonutility units, the term “actual 1985 emission rate” means the annual sulfur dioxide or nitrogen oxides emission rate in pounds per million Btu as reported in the NAPAP Emission Inventory, Version 2.

(17)(A) The term “utility unit” means—

(i) a unit that serves a generator in any State that produces electricity for sale, or

(ii) a unit that, during 1985, served a generator in any State that produced electricity for sale.

(B) Notwithstanding subparagraph (A), a unit described in subparagraph (A) that—

(i) was in commercial operation during 1985, but

(ii) did not, during 1985, serve a generator in any State that produced electricity for sale shall not be a utility unit for purposes of this title.

(C) A unit that cogenerates steam and electricity is not a “utility unit” for purposes of this title unless the unit is constructed for the purpose of supplying, or commences construction after the date of enactment of this title and supplies, more than one-third of its potential electric output capacity and more than 25 megawatts electrical output to any utility power distribution system for sale.

(18) The term “allowable 1985 emissions rate” means a federally enforceable emissions limitation for sulfur dioxide or oxides of nitrogen, applicable to the unit in 1985 or the limitation applicable in such other subsequent year as determined by the Administrator if such a limitation for 1985 does not exist. Where the emissions limitation for a unit is not expressed in pounds of emissions per million Btu, or the averaging period of that emissions limitation is not expressed on an annual basis, the Administrator shall calculate the annual equivalent of that emissions limitation in pounds per million Btu to establish the allowable 1985 emissions rate.

(19) The term “qualifying phase I technology” means a technological system of continuous emission reduction which achieves a 90 percent reduction in emissions of sulfur dioxide from the emissions that would have resulted from the use of fuels which were not subject to treatment prior to combustion.

(20) The term “alternative method of compliance” means a method of compliance in accordance with one or more of the following authorities:

(A) a substitution plan submitted and approved in accordance with subsections 404(b) and (c);

(B) a Phase I extension plan approved by the Administrator under section 404(d), using qualifying phase I technology as determined by the Administrator in accordance with that section; or

(C) repowering with a qualifying clean coal technology under section 409.

(21) The term “commenced” as applied to construction of any new electric utility unit means that an owner or operator has undertaken a continuous program of construction or that an owner or operator has entered into a contractual obligation to undertake and complete, within a reasonable time, a continuous program of construction.

(22) The term “commenced commercial operation” means to have begun to generate electricity for sale.

(23) The term “construction” means fabrication, erection, or installation of an affected unit.

(24) The term “industrial source” means a unit that does not serve a generator that produces electricity, a “nonutility unit” as defined in this section, or a process source as defined in section 410(e).

(25) The term “nonutility unit” means a unit other than a utility unit.

(26) The term “designated representative” means a responsible person or official authorized by the owner or operator of a unit to represent the owner or operator in matters pertaining to the holding, transfer, or disposition of allowances allocated to a unit, and the submission of and compliance with permits, permit applications, and compliance plans for the unit.

(27) The term “life-of-the-unit, firm power contractual arrangement” means a unit participation power sales agreement under which a utility or industrial customer reserves, or is entitled to receive, a specified amount or percentage of capacity and associated energy generated by a specified generating unit (or units) and pays its proportional amount of such unit’s total costs, pursuant to a contract either—

(A) for the life of the unit;

(B) for a cumulative term of no less than 30 years, including contracts that permit an election for early termination; or

(C) for a period equal to or greater than 25 years or 70 percent of the economic useful life of the unit determined as of the time the unit was built, with option rights to purchase or re-lease some portion of the capacity and associated energy generated by the unit (or units) at the end of the period.

(28) The term “basic Phase II allowance allocations” means:

(A) For calendar years 2000 through 2009 inclusive, allocations of allowances made by the Administrator pursuant to section 403 and subsections (b)(1), (3), and (4); (c)(1), (2), (3), and (5); (d)(1), (2), (4), and (5); (e); (f); (g)(1), (2), (3), (4), and (5); (h)(1); (i) and (j) of section 405.

(B) For each calendar year beginning in 2010, allocations of allowances made by the Administrator pursuant to section 403 and subsections (b)(1), (3), and (4); (c)(1), (2), (3), and (5); (d)(1), (2), (4) and (5); (e); (f); (g)(1), (2), (3), (4), and (5); (h)(1) and (3); (i) and (j) of section 405.

(29) The term “Phase II bonus allowance allocations” means, for calendar year 2000 through 2009, inclusive, and only for such years, allocations made by the Administrator pursuant to section 403, subsections (a)(2), (b)(2), (c)(4), (d)(3) (except as otherwise provided therein), and (h)(2) of section 405, and section 406.

[¶ 2403]

Sec. 403. SULFUR DIOXIDE ALLOWANCE PROGRAM FOR EXISTING AND NEW UNITS.

(a) ALLOCATIONS OF ANNUAL ALLOWANCES FOR EXISTING AND NEW UNITS.—(1) For the emission limitation programs under this title, the Administrator shall allocate annual allowances for the unit, to be held or distributed by the designated representative of the owner or operator of each affected unit at an affected source in accordance with this title, in an amount equal to the annual tonnage emission limitation calculated under section 404, 405, 406, 409, or 410 except as otherwise specifically provided elsewhere in this title. Except as provided in sections 405(a)(2), 405(a)(3), 409 and 410, beginning January 1, 2000, the Administrator shall not allocate annual allowances to emit sulfur dioxide pursuant to section 405 in such an amount as would result in total annual emissions of sulfur dioxide from utility units in excess of 8.90 million tons except that the Administrator shall not take into account unused allowances carried forward by owners and operators of affected units or by other persons holding such allowances, following the year for which they were allocated. If necessary to meeting the restrictions imposed in the preceding sentence, the Administrator shall reduce, pro rata, the basic Phase II allowance allocations for each unit subject to the requirements of section 405. Subject to the provisions of section 416, the Administrator shall allocate allowances for each affected unit at an affected source annually, as provided in paragraphs (2) and (3) and section 408. Except as provided in sections 409 and 410, the removal of an existing affected unit or source from commercial operation at any time after the date of the enactment of the Clean Air Act Amendments of 1990 (whether before or after January 1, 1995, or January 1, 2000) shall not terminate or otherwise affect the allocation of allowances pursuant to section 404 or 405 to which the unit is entitled. Allowances shall be allocated by the Administrator without cost to the recipient, except for allowances sold by the Administrator pursuant to section 416. Not later than

December 31, 1991, the Administrator shall publish a proposed list of the basic Phase II allowance allocations, the Phase II bonus allowance allocations and, if applicable, allocations pursuant to section 405(a)(3) for each unit subject to the emissions limitation requirements of section 405 for the year 2000 and the year 2010. After notice and opportunity for public comment, but not later than December 31, 1992, the Administrator shall publish a final list of such allocations, subject to the provisions of section 405(a)(2). Any owner or operator of an existing unit subject to the requirements of section 405(b) or (c) who is considering applying for an extension of the emission limitation requirement compliance deadline for that unit from January 1, 2000, until not later than December 31, 2000, pursuant to section 409, shall notify the Administrator no later than March 31, 1991. Such notification shall be used as the basis for estimating the basic Phase II allowances under this subsection. Prior to June 1, 1998, the Administrator shall publish a revised final statement of allowance allocations, subject to the provisions of section 405(a)(2) and taking into account the effect of any compliance date extensions granted pursuant to section 409 on such allocations. Any person who may make an election concerning the amount of allowances to be allocated to a unit or units shall make such election and so inform the Administrator not later than March 31, 1991, in the case of an election under section 405 (or June 30, 1991, in the case of an election under section 406). If such person fails to make such election, the Administrator shall set forth for each unit owned or operated by such person, the amount of allowances reflecting the election that would, in the judgment of the Administrator, provide the greatest benefit for the owner or operator of the unit. If such person is a Governor who may make an election under section 406 and the Governor fails to make an election, the Administrator shall set forth for each unit in the State the amount of allowances reflecting the election that would, in the judgment of the Administrator, provide the greatest benefit for units in the State.

(b) ALLOWANCE TRANSFER SYSTEM.—Allowances allocated under this title may be transferred among designated representatives of the owners or operators of affected sources under this title and any other person who holds such allowances, as provided by the allowance system regulations to be promulgated by the Administrator not later than eighteen months after the date of enactment of the Clean Air Act Amendments of 1990. Such regulations shall establish the allowance system prescribed under this section, including, but not limited to, requirements for the allocation, transfer, and use of allowances under this title. Such regulations shall prohibit the use of any allowance prior to the calendar year for which the allowance was allocated, and shall provide, consistent with the purposes of this title, for the identification of unused allowances, and for such unused allowances to be carried forward and added to allowances allocated in subsequent years, including allowances allocated to units subject to Phase I requirements (as described in section 404) which are applied to emissions limitations requirements in Phase II (as described in section 405). Transfers of allowances shall not be effective until written certification of the transfer, signed by a responsible official of each party to the transfer, is received and recorded by the Administrator. Such regulations shall permit the transfer of allowances prior to the issuance of such allowances.

Recorded pre-allocation transfers shall be deducted by the Administrator from the number of allowances which would otherwise be allocated to the transferor, and added to those allowances allocated to the transferee. Pre-allocation transfers shall not affect the prohibition contained in this subsection against the use of allowances prior to the year for which they are allocated.

(c) **INTERPOLLUTANT TRADING.**—Not later than January 1, 1994, the Administrator shall furnish to the Congress a study evaluating the environmental and economic consequences of amending this title to permit trading sulfur dioxide allowances for nitrogen oxides allowances.

(d) **ALLOWANCE TRACKING SYSTEM.**—(1) The Administrator shall promulgate, not later than 18 months after the date of enactment of the Clean Air Act Amendments of 1990, a system for issuing, recording, and tracking allowances, which shall specify all necessary procedures and requirements for an orderly and competitive functioning of the allowance system. All allowance allocations and transfers shall, upon recordation by the Administrator, be deemed a part of each unit's permit requirements pursuant to section 408, without any further permit review and revision.

(2) In order to insure electric reliability, such regulations shall not prohibit or affect temporary increases and decreases in emissions within utility systems, power pools, or utilities entering into allowance pool agreements, that result from their operations, including emergencies and central dispatch, and such temporary emissions increases and decreases shall not require transfer of allowances among units nor shall it require recordation. The owners or operators of such units shall act through a designated representative. Notwithstanding the preceding sentence, the total tonnage of emissions in any calendar year (calculated at the end thereof) from all units in such a utility system, power pool, or allowance pool agreements shall not exceed the total allowances for such units for the calendar year concerned.

(e) **NEW UTILITY UNITS.**—After January 1, 2000, it shall be unlawful for a new utility unit to emit an annual tonnage of sulfur dioxide in excess of the number of allowances to emit held for the unit by the unit's owner or operator. Such new utility units shall not be eligible for an allocation of sulfur dioxide allowances under subsection (a)(1), unless the unit is subject to the provisions of subsection (g)(2) or (3) of section 405. New utility units may obtain allowances from any person, in accordance with this title. The owner or operator of any new utility unit in violation of this subsection shall be liable for fulfilling the obligations specified in section 411 of this title.

(f) **NATURE OF ALLOWANCES.**—An allowance allocated under this title is a limited authorization to emit sulfur dioxide in accordance with the provisions of this title. Such allowance does not constitute a property right. Nothing in this title or in any other provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization. Nothing in this section relating to allowances shall be construed affecting the application of, or compliance with, any other provision of this Act to an affected unit or source, including the provisions related to applicable National Ambient Air Quality Standards and State implementation plans. Nothing in

this section shall be construed as requiring a change of any kind in any State law regulating electric utility rates and charges or affecting any State law regarding such State regulation or as limiting State regulation (including any prudence review) under such a State law. Nothing in this section shall be construed as modifying the Federal Power Act or as affecting the authority of the Federal Energy Regulatory Commission under that Act. Nothing in this title shall be construed to interfere with or impair any program for competitive bidding for power supply in a State in which such program is established. Allowances, once allocated to a person by the Administrator, may be received, held, and temporarily or permanently transferred in accordance with this title and the regulations of the Administrator without regard to whether or not a permit is in effect under title V or section 408 with respect to the unit for which such allowance was originally allocated and recorded. Each permit under this title and each permit issued under title V for any affected unit shall provide that the affected unit may not emit an annual tonnage of sulfur dioxide in excess of the allowances held for that unit.

(g) PROHIBITION.—It shall be unlawful for any person to hold, use, or transfer any allowance allocated under this title, except in accordance with regulations promulgated by the Administrator. It shall be unlawful for any affected unit to emit sulfur dioxide in excess of the number of allowances held for that unit for that year by the owner or operator of the unit. Upon the allocation of allowances under this title, the prohibition contained in the preceding sentence shall supersede any other emission limitation applicable under this title to the units for which such allowances are allocated. Allowances may not be used prior to the calendar year for which they are allocated. Nothing in this section or in the allowance system regulations shall relieve the Administrator of the Administrator's permitting, monitoring and enforcement obligations under this Act, nor relieve affected sources of their requirements and liabilities under this Act.

(h) COMPETITIVE BIDDING FOR POWER SUPPLY.—Nothing in this title shall be construed to interfere with or impair any program for competitive bidding for power supply in a State in which such program is established.

(i) APPLICABILITY OF THE ANTITRUST LAWS.—

(1) Nothing in this section affects—

(A) the applicability of the antitrust laws to the transfer, use, or sale of allowances, or

(B) the authority of the Federal Energy Regulatory Commission under any provision of law respecting unfair methods of competition or anticompetitive acts or practices.

(2) As used in this section, "antitrust laws" means those Acts set forth in section 1 of the Clayton Act (15 U.S.C. 12), as amended.

(j) PUBLIC UTILITY HOLDING COMPANY ACT.—The acquisition or disposition of allowances pursuant to this title including the issuance of securities or the undertaking of any other financing transaction in connection with such

allowances shall not be subject to the provisions of the Public Utility Holding Company Act of 1935.

[¶ 2404]

Sec. 404. PHASE I SULFUR DIOXIDE REQUIREMENTS.

(a) EMISSION LIMITATIONS.—(1) After January 1, 1995, each source that includes one or more affected units listed in table A is an affected source under this section. After January 1, 1995, it shall be unlawful for any affected unit (other than an eligible phase I unit under section 404(d)(2)) to emit sulfur dioxide in excess of the tonnage limitation stated as a total number of allowances in table A for phase I, unless (A) the emissions reduction requirements applicable to such unit have been achieved pursuant to subsection (b) or (d), or (B) the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions, except that, after January 1, 2000, the emissions limitations established in this section shall be superseded by those established in section 405. The owner or operator of any unit in violation of this section shall be fully liable for such violation including, but not limited to, liability for fulfilling the obligations specified in section 411.

(2) Not later than December 31, 1991, the Administrator shall determine the total tonnage of reductions in the emissions of sulfur dioxide from all utility units in calendar year 1995 that will occur as a result of compliance with the emissions limitation requirements of this section, and shall establish a reserve of allowances equal in amount to the number of tons determined thereby not to exceed a total of 3.50 million tons. In making such a determination, the Administrator shall compute for each unit subject to the emissions limitation requirements of this section the difference between:

(A) the product of its baseline multiplied by the lesser of each unit's allowable 1985 emissions rate and its actual 1985 emissions rate, divided by 2,000, and

(B) the product of each unit's baseline multiplied by 2.50 lbs/mmBtu divided by 2,000,

and sum the computations. The Administrator shall adjust the foregoing calculation to reflect projected calendar year 1995 utilization of the units subject to the emissions limitations of this title that the Administrator finds would have occurred in the absence of the imposition of such requirements. Pursuant to subsection (d), the Administrator shall allocate allowances from the reserve established hereinunder until the earlier of such time as all such allowances in the reserve are allocated or December 31, 1999.

(3) In addition to allowances allocated pursuant to paragraph (1), in each calendar year beginning in 1995 and ending in 1999, inclusive, the Administrator shall allocate for each unit on Table A that is located in the States of Illinois, Indiana, or Ohio (other than units of Kyger Creek, Clifty Creek and Joppa Steam), allowances in an amount equal to 200,000 multiplied by the unit's pro rata share of the total number of

allowances allocated for all units on Table A in the 3 States (other than units at Kyger Creek, Clifty Creek, and Joppa Steam) pursuant to paragraph (1). Such allowances shall be excluded from the calculation of the reserve under paragraph (2).

(b) **SUBSTITUTIONS.**—The owner or operator of an affected unit under subsection (a) may include in its section 408 permit application and proposed compliance plan a proposal to reassign, in whole or in part, the affected unit's sulfur dioxide reduction requirements to any other unit(s) under the control of such owner or operator. Such proposal shall specify—

(1) the designation of the substitute unit or units to which any part of the reduction obligations of subsection (a) shall be required, in addition to, or in lieu of, any original affected units designated under such subsection;

(2) the original affected unit's baseline, the actual and allowable 1985 emissions rate for sulfur dioxide, and the authorized annual allowance allocation stated in table A;

(3) calculation of the annual average tonnage for calendar years 1985, 1986, and 1987, emitted by the substitute unit or units, based on the baseline for each unit, as defined in section 402(d), multiplied by the lesser of the unit's actual or allowable 1985 emissions rate;

(4) the emissions rates and tonnage limitations that would be applicable to the original and substitute affected units under the substitution proposal;

(5) documentation, to the satisfaction of the Administrator, that the reassigned tonnage limits will, in total, achieve the same or greater emissions reduction than would have been achieved by the original affected unit and the substitute unit or units without such substitution; and

(6) such other information as the Administrator may require.

(c) **ADMINISTRATOR'S ACTION ON SUBSTITUTION PROPOSALS.**—(1) The Administrator shall take final action on such substitution proposal in accordance with section 408(c) if the substitution proposal fulfills the requirements of this subsection. The Administrator may approve a substitution proposal in whole or in part and with such modifications or conditions as may be consistent with the orderly functioning of the allowance system and which will ensure the emissions reductions contemplated by this title. If a proposal does not meet the requirements of subsection (b), the Administrator shall disapprove it. The owner or operator of a unit listed in table A shall not substitute another unit or units without the prior approval of the Administrator.

(2) Upon approval of a substitution proposal, each substitute unit, and each source with such unit, shall be deemed affected under this title, and the Administrator shall issue a permit to the original and substitute affected source and unit in accordance with the approved substitution plan and section 408. The Administrator shall allocate allowances for the original and substitute affected units in accordance with the approved

substitution proposal pursuant to section 403. It shall be unlawful for any source or unit that is allocated allowances pursuant to this section to emit sulfur dioxide in excess of the emissions limitation provided for in the approved substitution permit and plan unless the owner or operator of each unit governed by the permit and approved substitution plan holds allowances to emit not less than the units total annual emissions. The owner or operator of any original or substitute affected unit operated in violation of this subsection shall be fully liable for such violation, including liability for fulfilling the obligations specified in section 411 of this title. If a substitution proposal is disapproved, the Administrator shall allocate allowances to the original affected unit or units in accordance with subsection (a).

(d) **ELIGIBLE PHASE I EXTENSION UNITS.**—(1) The owner or operator of any affected unit subject to an emissions limitation requirement under this section may petition the Administrator in its permit application under section 408 for an extension of 2 years of the deadline for meeting such requirement, provided that the owner or operator of any such unit holds allowances to emit not less than the unit's total annual emissions for each of the 2 years of the period of extension. To qualify for such an extension, the affected unit must either employ a qualifying phase I technology, or transfer its phase I emissions reduction obligation to a unit employing a qualifying phase I technology. Such transfer shall be accomplished in accordance with a compliance plan, submitted and approved under section 408, that shall govern operations at all units included in the transfer, and that specifies the emissions reduction requirements imposed pursuant to this title.

(2) Such extension proposal shall—

(A) specify the unit or units proposed for designation as an eligible phase I extension unit;

(B) provide a copy of an executed contract, which may be contingent upon the Administrator approving the proposal, for the design engineering, and construction of the qualifying phase I technology for the extension unit, or for the unit or units to which the extension unit's emission reduction obligation is to be transferred;

(C) specify the unit's or units' baseline, actual 1985 emissions rate, allowable 1985 emissions rate, and projected utilization for calendar years 1995 through 1999;

(D) require CEMS on both the eligible phase I extension unit or units and the transfer unit or units beginning no later than January 1, 1995; and

(E) specify the emission limitation and number of allowances expected to be necessary for annual operation after the qualifying phase I technology has been installed.

(3) The Administrator shall review and take final action on each extension proposal in order of receipt, consistent with section 408, and for an approved proposal shall designate the unit or units as an eligible phase

I extension unit. The Administrator may approve an extension proposal in whole or in part, and with such modifications or conditions as may be necessary, consistent with the orderly functioning of the allowance system, and to ensure the emissions reductions contemplated by the title.

(4) In order to determine the number of proposals eligible for allocations from the reserve under subsection (a)(2) and the number of allowances remaining available after each proposal is acted upon, the Administrator shall reduce the total number of allowances remaining available in the reserve by the number of allowances calculated according to subparagraphs (A), (B) and (C) until either no allowances remain available in the reserve for further allocation or all approved proposals have been acted upon. If no allowances remain available in the reserve for further allocation before all proposals have been acted upon by the Administrator, any pending proposals shall be disapproved. The Administrator shall calculate allowances equal to—

(A) the difference between the lesser of the average annual emissions in calendar years 1988 and 1989 or the projected emissions tonnage for calendar year 1995 of each eligible phase I extension unit, as designated under paragraph (3), and the product of the unit's baseline multiplied by an emission rate of 2.50 lbs./mmBtu, divided by 2,000;

(B) the difference between the lesser of the average annual emissions in calendar years 1988 and 1989 or the projected emissions tonnage for calendar year 1996 of each eligible phase I extension unit, as designated under paragraph (3), and the product of the unit's baseline multiplied by an emission rate of 2.50 lbs./mmBtu, divided by 2,000; and

(C) the amount by which (i) the product of each unit's baseline multiplied by an emission rate of 1.20 lbs./mmBtu, divided by 2,000, exceeds (ii) the tonnage level specified under subparagraph (E) of paragraph (2) of this subsection multiplied by a factor of 3.

(5) Each eligible Phase I extension unit shall receive allowances determined under subsection (a)(1) or (c) of this section. In addition, for calendar year 1995, the Administrator shall allocate to each eligible Phase I extension unit, from the allowance reserve created pursuant to subsection (a)(2), allowances equal to the difference between the lesser of the average annual emissions in calendar years 1988 and 1989 or its projected emissions tonnage for calendar year 1995 and the product of the unit's baseline multiplied by an emission rate of 2.50 lbs./mmBtu, divided by 2,000. In calendar year 1996, the Administrator shall allocate for each eligible unit, from the allowance reserve created pursuant to subsection (a)(2), allowances equal to the difference between the lesser of the average annual emissions in calendar years 1988 and 1989 or its projected emissions tonnage for calendar year 1996 and the product of the unit's baseline multiplied by an emission rate of 2.50 lbs./mmBtu, divided by 2,000. It shall be unlawful for any source or unit subject to an approved extension plan under this subsection to emit sulfur dioxide in

excess of the emissions limitations provided for in the permit and approved extension plan, unless the owner or operator of each unit governed by the permit and approved plan holds allowances to emit not less than the unit's total annual emissions.

(6) In addition to allowances specified in paragraph (5), the Administrator shall allocate for each eligible Phase I extension unit employing qualifying Phase I technology, for calendar years 1997, 1998, and 1999, additional allowances, from any remaining allowances in the reserve created pursuant to subsection (a)(2), following the reduction in the reserve provided for in paragraph (4), not to exceed the amount by which (A) the product of each eligible unit's baseline times an emission rate of 1.20 lbs./mmBtu, divided by 2,000, exceeds (B) the tonnage level specified under subparagraph (E) of paragraph (2) of this subsection.

(7) After January 1, 1997, in addition to any liability under this Act, including under section 411, if any eligible phase I extension unit employing qualifying phase I technology or any transfer unit under this subsection emits sulfur dioxide in excess of the annual tonnage limitation specified in the extension plan, as approved in paragraph (3) of this subsection, the Administrator shall, in the calendar year following such excess, deduct allowances equal to the amount of such excess from such unit's annual allowance allocation.

(e)(1) In the case of a unit that receives authorization from the Governor of the State in which such unit is located to make reductions in the emissions of sulfur dioxide prior to calendar year 1995 and that is part of a utility system that meets the following requirements: (A) the total coal-fired generation within the utility system as a percentage of total system generation decreased by more than 20 percent between January 1, 1980, and December 31, 1985; and (B) the weighted capacity factor of all coal-fired units within the utility system averaged over the period from January 1, 1985, through December 31, 1987, was below 50 percent, the Administrator shall allocate allowances under this paragraph for the unit pursuant to this subsection. The Administrator shall allocate allowances for a unit that is an affected unit pursuant to section 405 (but is not also an affected unit under this section) and part of a utility system that includes 1 or more affected units under section 405 for reductions in the emissions of sulfur dioxide made during the period 1995-1999 if the unit meets the requirements of this subsection and the requirements of the preceding sentence, except that for the purposes of applying this subsection to any such unit, the prior year concerned as specified below, shall be any year after January 1, 1995 but prior to January 1, 2000.

(2) In the case of an affected unit under this section described in subparagraph (A), the allowances allocated under this subsection for early reductions in any prior year may not exceed the amount which (A) the product of the unit's baseline multiplied by the unit's 1985 actual sulfur dioxide emission rate (in lbs. per mmBtu), divided by 2,000, exceeds (B) the allowances specified for such unit in Table A. In the case of an affected unit under section 405 described in subparagraph (A), the allowances awarded under this subsection for early reductions in any

prior year may not exceed the amount by which (i) the product of the quantity of fossil fuel consumed by the unit (in mmBtu) in the prior year multiplied by the lesser of 2.50 or the most stringent emission rate (in lbs. per mmBtu) applicable to the unit under the applicable implementation plan, divided by 2,000, exceeds (ii) the unit's actual tonnage of sulfur dioxide emission for the prior year concerned. Allowances allocated under this subsection for units referred to in subparagraph (A) may be allocated only for emission reductions achieved as a result of physical changes or changes in the method of operation made after the date of enactment of the Clean Air Act Amendments of 1990, including changes in the type or quality of fossil fuel consumed.

(3) In no event shall the provisions of this paragraph be interpreted as an event of force majeure or a commercial impracticability or in any other way as a basis for excused nonperformance by a utility system under a coal sales contract in effect before the date of enactment of the Clean Air Act Amendments of 1990.

TABLE A.—AFFECTED SOURCES AND UNITS IN PHASE I AND THEIR SULFUR DIOXIDE ALLOWANCES (tons)

State	Plant Name	Gen- erator	Phase I Allow- ances	State	Plant Name	Gen- erator	Phase I Allow- ances
Alabama	Colbert	1	13,570		Coffeen	1	11,790
		2	15,310			2	35,670
		3	15,400			4	5,910
		4	15,410			2	18,410
		5	37,180			1	12,590
	E.C. Gaston . .	1	18,100		Joppa Steam . .	2	10,770
		2	18,540			3	12,270
		3	18,310			4	11,360
		4	19,280			5	11,420
		5	59,840			6	10,620
Florida	Big Bend	1	28,410		Kincaid	1	31,530
		2	27,100			2	33,810
		3	26,740		Meredosia	3	13,890
	Crist	6	19,200			2	8,880
		7	31,680	Indiana	Bailly	7	11,180
Georgia	Bowen	1	56,320			8	15,630
		2	54,770		Breed	1	18,500
		3	71,750			1	33,370
		4	71,740		Cayuga	2	34,130
	Hammond	1	8,780			1	20,150
		2	9,220		Clifty Creek . .	2	19,810
		3	8,910			3	20,410
		4	37,640		E. W. Stout . . .	4	20,080
	J. McDonough .	1	19,910			5	19,360
		2	20,600		F.B. Culley . . .	6	20,380
	Wansley	1	70,770			5	3,880
		2	65,430		F.E. Ratts	6	4,770
	Yates	1	7,210			7	23,610
		2	7,040		Gibson	2	4,290
		3	6,950			3	16,970
		4	8,910			1	8,330
		5	9,410			2	8,480
		6	24,760	Illinois	Baldwin	1	40,400
		7	21,480			2	41,010
		1	42,010			3	41,080
		2	44,420			4	40,320
		3	42,550				

TABLE A.—AFFECTED SOURCES AND UNITS IN PHASE I AND THEIR SULFUR DIOXIDE ALLOWANCES (tons)—(continued)

State	Plant Name	Gen- erator	Phase I Allow- ances	State	Plant Name	Gen- erator	Phase I Allow- ances
	H.T. Pritchard	6	5,770			3	10,090
	Michigan City	12	23,310		New Madrid ..	1	28,240
	Petersburg ...	1	16,430			2	32,480
		2	32,380		Sibley	3	15,580
	R. Gallagher ..	1	6,490		Sioux	1	22,570
		2	7,280			2	23,690
		3	6,530		Thomas Hill ..	1	10,250
		4	7,650			2	19,390
	Tanners Creek	4	24,820				
	Wabash River ..	1	4,000	New			
		2	2,860	Hampshire ...	Merrimack ...	1	10,190
		3	3,750			2	22,000
		5	3,670				
		6	12,280	New Jersey ...	B.L. England ..	1	9,060
	Warrick	4	26,980			2	11,720
Iowa	Burlington ...	1	10,710				
	Des Moines ...	7	2,320	New York	Dunkirk	3	12,600
	George Neal ..	1	1,290			4	14,060
	M.L. Kapp ...	2	13,800		Greenidge	4	7,540
	Prairie Creek ..	4	8,180		Milliken	1	11,170
	Riverside	5	3,990			2	12,410
Kansas	Quindaro	2	4,220		Northport	1	19,810
Kentucky	Coleman	1	11,250			2	24,110
		2	12,840			3	26,480
		3	12,340		Port Jefferson ..	3	10,470
	Cooper	1	7,450			4	12,330
		2	15,320	Ohio	Ashtabula	5	16,740
	E.W. Brown ..	1	7,110		Avon Lake ...	8	11,650
		2	10,910			9	30,480
		3	26,100		Cardinal	1	34,270
	Elmer Smith ..	1	6,520			2	38,320
		2	14,410		Conesville	1	4,210
	Ghent	1	28,410			2	4,890
	Green River ..	4	7,820			3	5,500
	H.L. Spurlock ..	1	22,780			4	48,770
	Henderson II ..	1	13,340		Eastlake	1	7,800
		2	12,310			2	8,640
	Paradise	3	59,170			3	10,020
	Shawnee	10	10,170			4	14,510
						5	34,070
Maryland	Chalk Point ..	1	21,910		Edgewater ...	4	5,050
		2	24,330		Gen. J.M.		
	C.P. Crane ...	1	10,330		Gavin	1	79,080
		2	9,230			2	80,560
	Morgantown ..	1	35,260		Kyger Creek ..	1	19,280
		2	38,480			2	18,560
Michigan	J.H. Campbell.	1	19,280			3	17,910
		2	23,060			4	18,710
Minnesota	High Bridge ..	6	4,270			5	18,740
Mississippi ...	Jack Watson ..	4	17,910		Miami Fort ...	5	760
		5	36,700			6	11,380
Missouri	Asbury	1	16,190			7	38,510
	James River ..	5	4,850		Muskingum		
	Labadie	1	40,110		River	1	14,880
		2	37,710			2	14,170
		3	40,310			3	13,950
		4	35,940			4	11,780
	Montrose	1	7,390			5	40,470
		2	8,200		Niles	1	6,940
						2	9,100
					Picway	5	4,930
					R.E. Burger ..	3	6,150
						4	10,780

TABLE A.—AFFECTED SOURCES AND UNITS IN PHASE I AND THEIR SULFUR DIOXIDE ALLOWANCES (tons)—(continued)

State	Plant Name	Gen- erator	Phase I Allow- ances	State	Plant Name	Gen- erator	Phase I Allow- ances
		5	12,430			2	8,040
	W.H. Sammis .	5	24,170			3	8,410
		6	39,930			4	7,990
		7	43,220			5	8,240
	W.C. Beckford	5	8,950			6	7,890
		6	23,020			7	8,980
Pennsylvania	Armstrong	1	14,410			8	8,700
		2	15,430			9	7,080
	Brunner Island	1	27,760			10	7,550
		2	31,100	West Virginia	Albright	3	12,000
		3	53,820		Fort Martin . .	1	41,590
	Cheswick	1	39,170			2	41,200
	Conemaugh . . .	1	59,790		Harrison	1	48,620
		2	66,450			2	46,150
	Hatfield's					3	41,500
	Ferry	1	37,830		Kammer	1	18,740
		2	37,320			2	19,460
		3	40,270			3	17,390
	Martins Creek	1	12,660		Mitchell	1	43,980
		2	12,820			2	45,510
	Portland	1	5,940		Mount Storm .	1	43,720
		2	10,230			2	35,580
	Shawville	1	10,320			3	42,430
		2	10,320	Wisconsin	Edgewater . . .	4	24,750
		3	14,220		La Crosse/		
		4	14,070		Genoa	3	22,700
	Sunbury	3	8,760		Nelson Dewey .	1	6,010
		4	11,450			2	6,680
Tennessee	Allen	1	15,320		N. Oak Creek .	1	5,220
		2	16,770			2	5,140
		3	15,670			3	5,370
	Cumberland . .	1	86,700			4	6,320
		2	94,840		Pulliam	8	7,510
	Gallatin	1	17,870		S. Oak Creek . .	5	9,670
		2	17,310			6	12,040
		3	20,020			7	16,180
		4	21,260			8	15,790
	Johnsonville . .	1	7,790				

(f) ENERGY CONSERVATION AND RENEWABLE ENERGY.—

(1) DEFINITIONS.—As used in this subsection:

(A) QUALIFIED ENERGY CONSERVATION MEASURE.—The term “qualified energy conservation measure” means a cost effective measure, as identified by the Administrator in consultation with the Secretary of Energy, that increases the efficiency of the use of electricity provided by an electric utility to its customers.

(B) QUALIFIED RENEWABLE ENERGY.—The term “qualified renewable energy” means energy derived from biomass, solar, geothermal, or wind as identified by the Administrator in consultation with the Secretary of Energy.

(C) ELECTRIC UTILITY.—The term “electric utility” means any person, State agency, or Federal agency, which sells electric energy.

(2) ALLOWANCES FOR EMISSIONS AVOIDED THROUGH ENERGY CONSERVATION AND RENEWABLE ENERGY.—

(A) IN GENERAL.—The regulations under paragraph (4) of this subsection shall provide that for each ton of sulfur dioxide emissions avoided by an electric utility, during the applicable period, through the use of qualified energy conservation measures or qualified renewable energy, the Administrator shall allocate a single allowance to such electric utility, on a first-come-first-served basis from the Conservation and Renewable Energy Reserve established under subsection (g), up to a total of 300,000 allowances for allocation from such Reserve.

(B) REQUIREMENTS FOR ISSUANCE.—The Administrator shall allocate allowances to an electric utility under this subsection only if all of the following requirements are met:

(i) Such electric utility is paying for the qualified energy conservation measures or qualified renewable energy directly or through purchase from another person.

(ii) The emissions of sulfur dioxide avoided through the use of qualified energy conservation measures or qualified renewable energy are quantified in accordance with regulations promulgated by the Administrator under this subsection.

(iii)(I) Such electric utility has adopted and is implementing a least cost energy conservation and electric power plan which evaluates a range of resources, including new power supplies, energy conservation, and renewable energy resources, in order to meet expected future demand at the lowest system cost.

(II) The qualified energy conservation measures or qualified renewable energy, or both, are consistent with that plan.

(III) Electric utilities subject to the jurisdiction of a State regulatory authority must have such plan approved by such authority. For electric utilities not subject to the jurisdiction of a State regulatory authority such plan shall be approved by the entity with rate-making authority for such utility.

(iv) In the case of qualified energy conservation measures undertaken by a State regulated electric utility, the Secretary of Energy certifies that the State regulatory authority with jurisdiction over the electric rates of such electric utility has established rates and charges which ensure that the net income of such electric utility after implementation of specific cost effective energy conservation measures is at least as high as such net income would have been if the energy conservation measures had not been implemented. Upon the date of any such certification by the Secretary of Energy, all allowances which, but for this paragraph, would have been allocated under

subparagraph (A) before such date, shall be allocated to the electric utility. This clause is not a requirement for qualified renewable energy.

(v) Such utility or any subsidiary of the utility's holding company owns or operates at least one affected unit.

(C) PERIOD OF APPLICABILITY.—Allowances under this subsection shall be allocated only with respect to kilowatt hours of electric energy saved by qualified energy conservation measures or generated by qualified renewable energy after January 1, 1992 and before the earlier of (i) December 31, 2000, or (ii) the date on which any electric utility steam generating unit owned or operated by the electric utility to which the allowances are allocated becomes subject to this title (including those sources that elect to become affected by this title, pursuant to section 410).

(D) DETERMINATION OF AVOIDED EMISSIONS.—

(i) APPLICATION.—In order to receive allowances under this subsection, an electric utility shall make an application which—

(I) designates the qualified energy conservation measures implemented and the qualified renewable energy sources used for purposes of avoiding emissions,

(II) calculates, in accordance with subparagraphs (F) and (G), the number of tons of emissions avoided by reason of the implementation of such measures or the use of such renewable energy sources; and

(III) demonstrates that the requirements of subparagraph (B) have been met.

Such application for allowances by a State-regulated electric utility shall require approval by the State regulatory authority with jurisdiction over such electric utility. The authority shall review the application for accuracy and compliance with this subsection and the rules under this subsection. Electric utilities whose retail rates are not subject to the jurisdiction of a State regulatory authority shall apply directly to the Administrator for such approval.

(E) AVOIDED EMISSIONS FROM QUALIFIED ENERGY CONSERVATION MEASURES.—For the purposes of this subsection, the emission tonnage deemed avoided by reason of the implementation of qualified energy conservation measures for any calendar year shall be a tonnage equal to the product of multiplying—

(i) the kilowatt hours that would otherwise have been supplied by the utility during such year in the absence of such qualified energy conservation measures, by

(ii) 0.004,

and dividing by 2,000.

(F) AVOIDED EMISSIONS FROM THE USE OF QUALIFIED RENEWABLE ENERGY.—The emissions tonnage deemed avoided by reason or the use of qualified renewable energy by an electric utility for any calendar year shall be a tonnage equal to the product of multiplying—

(i) the actual kilowatt hours generated by, or purchased from, qualified renewable energy, by

(ii) 0.004,

and dividing by 2,000.

(G) PROHIBITIONS.—(i) No allowances shall be allocated under this subsection for the implementation of programs that are exclusively informational or educational in nature.

(ii) No allowances shall be allocated for energy conservation measures or renewable energy that were operational before January 1, 1992.

(3) SAVINGS PROVISION.—Nothing in this subsection precludes a State or State regulatory authority from providing additional incentives to utilities to encourage investment in demand-side resources.

(4) REGULATIONS.—Not later than 18 months after the date of the enactment of the Clean Air Act Amendments of 1990 and in conjunction with the regulations required to be promulgated under subsections (b) and (c), the Administrator shall, in consultation with the Secretary of Energy, promulgate regulations under this subsection. Such regulations shall list energy conservation measures and renewable energy sources which may be treated as qualified energy conservation measures and qualified renewable energy for purposes of this subsection. Allowances shall only be allocated if all requirements of this subsection and the rules promulgated to implement this subsection are complied with. The Administrator shall review the determinations of each State regulatory authority under this subsection to encourage consistency from electric utility to electric utility and from State to State in accordance with the Administrator's rules. The Administrator shall publish the findings of this review no less than annually.

(g) CONSERVATION AND RENEWABLE ENERGY RESERVE.—The Administrator shall establish a Conservation and Renewable Energy Reserve under this subsection. Beginning on January 1, 1995, the Administrator may allocate from the Conservation and Renewable Energy Reserve an amount equal to a total of 300,000 allowances for emissions of sulfur dioxide pursuant to section 403. In order to provide 300,000 allowances for such reserve, in each year beginning in calendar year 2000 and until calendar year 2009, inclusive, the Administrator shall reduce each unit's basic Phase II allowance allocation on the basis of its pro rata share of 30,000 allowances. If allowances remain in the reserve after January 2, 2010, the Administrator shall allocate such allowances for affected units under section 405 on a pro rata basis. For purposes of this subsection, for any unit subject to the emissions limitation requirements of

section 405, the term "pro rata basis" refers to the ratio which the reductions made in such unit's allowances in order to establish the reserve under this subsection bears to the total of such reductions for all such units.

(h) **ALTERNATIVE ALLOWANCE ALLOCATION FOR UNITS IN CERTAIN UTILITY SYSTEMS WITH OPTIONAL BASELINE.**—

(1) **OPTIONAL BASELINE FOR UNITS IN CERTAIN SYSTEMS.**—In the case of a unit subject to the emissions limitation requirements of this section which (as of the date of the enactment of the Clean Air Act Amendments of 1990)—

(A) has an emission rate below 1.0 lbs/mmBtu,

(B) has decreased its sulfur dioxide emissions rate by 60 percent or greater since 1980, and

(C) is part of a utility system which has a weighted average sulfur dioxide emissions rate for all fossil fueled-fired units below 1.0 lbs/mmBtu,

at the election of the owner or operator of such unit, the unit's baseline may be calculated (i) as provided under section 402(d), or (ii) by utilizing the unit's average annual fuel consumption at a 60 percent capacity factor. Such election shall be made no later than March 1, 1991.

(2) **ALLOWANCE ALLOCATION.**— Whenever a unit referred to in paragraph (1) elects to calculate its baseline as provided in clause (ii) of paragraph (1), the Administrator shall allocate allowances for the unit pursuant to section 403(a)(1), this section, and section 405 (as basic Phase II allowance allocations) in an amount equal to the baseline selected multiplied by the lower of the average annual emission rate for such unit in 1989, or 1.0 lbs./mmBtu. Such allowance allocation shall be in lieu of any allocation of allowances under this section and section 405.

[¶ 2405]

Sec. 405. PHASE II SULFUR DIOXIDE REQUIREMENTS.

(a) **APPLICABILITY.**—(1) After January 1, 2000, each existing utility unit as provided below is subject to the limitations or requirements of this section. Each utility unit subject to an annual sulfur dioxide tonnage emission limitation under this section is an affected unit under this title. Each source that includes one or more affected units is an affected source. In the case of an existing unit that was not in operation during calendar year 1985, the emission rate for a calendar year after 1985, as determined by the Administrator, shall be used in lieu of the 1985 rate. The owner or operator of any unit operated in violation of this section shall be fully liable under this Act for fulfilling the obligations specified in section 411 of this title.

(2) In addition to basic Phase II allowance allocations, in each year beginning in calendar year 2000 and ending in calendar year 2009, inclusive, the Administrator shall allocate up to 530,000 Phase II bonus

allowances pursuant to subsections (b)(2), (c)(4), (d)(3)(A) and (B), and (h)(2) of this section and section 406. Not later than June 1, 1998, the Administrator shall calculate, for each unit granted an extension pursuant to section 409 the difference between (A) the number of allowances allocated for the unit in calendar year 2000, and (B) the product of the unit's baseline multiplied by 1.20 lbs/ mmBtu, divided by 2000, and sum the computations. In each year, beginning in calendar year 2000 and ending in calendar year 2009, inclusive, the Administrator shall deduct from each unit's basic Phase II allowance allocation its pro rata share of 10 percent of the sum calculated pursuant to the preceding sentence.

(3) In addition to basic Phase II allowance allocations and Phase II bonus allowance allocations, beginning January 1, 2000, the Administrator shall allocate for each unit listed on Table A in section 404 (other than units at Kyger Creek, Clifty Creek, and Joppa Steam) and located in the States of Illinois, Indiana, Ohio, Georgia, Alabama, Missouri, Pennsylvania, West Virginia, Kentucky, or Tennessee allowances in an amount equal to 50,000 multiplied by the unit's pro rata share of the total number of basic allowances allocated for all units listed on Table A (other than units at Kyger Creek, Clifty Creek, and Joppa Steam). Allowances allocated pursuant to this paragraph shall not be subject to the 8,900,000 ton limitation in section 403(a).

(b) UNITS EQUAL TO, OR ABOVE, 75 MWE AND 1.20 LBS/MMBTU.—(1) Except as otherwise provided in paragraph (3), after January 1, 2000, it shall be unlawful for any existing utility unit that serves a generator with nameplate capacity equal to, or greater, than 75 MWe and an actual 1985 emission rate equal to or greater than 1.20 lbs/ mmBtu to exceed an annual sulfur dioxide tonnage emission limitation equal to the product of the unit's baseline multiplied by an emission rate equal to 1.20 lbs/mmBtu, divided by 2,000, unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(2) In addition to allowances allocated pursuant to paragraph (1) and section 403(a)(1) as basic Phase II allowance allocations, beginning January 1, 2000, and for each calendar year thereafter until and including 2009, the Administrator shall allocate annually for each unit subject to the emissions limitation requirements of paragraph (1) with an actual 1985 emissions rate greater than 1.20 lbs/mmBtu and less than 2.50 lbs/mmBtu and a baseline capacity factor of less than 60 percent, allowances from the reserve created pursuant to subsection (a)(2) in an amount equal to 1.20 lbs/ mmBtu multiplied by 50 percent of the difference, on a Btu basis, between the unit's baseline and the unit's fuel consumption at a 60 percent capacity factor.

(3) After January 1, 2000, it shall be unlawful for any existing utility unit with an actual 1985 emissions rate equal to or greater than 1.20 lbs/mmBtu whose annual average fuel consumption during 1985, 1986, and 1987 on a Btu basis exceeded 90 percent in the form of lignite coal which is located in a State in which, as of July 1, 1989, no county or portion of a county was designated nonattainment under section 107 of this Act for

any pollutant subject to the requirements of section 109 of this Act to exceed an annual sulfur dioxide tonnage limitation equal to the product of the unit's baseline multiplied by the lesser of the unit's actual 1985 emissions rate or its allowable 1985 emissions rate, divided by 2,000, unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(4) After January 1, 2000, the Administrator shall allocate annually for each unit, subject to the emissions limitation requirements of paragraph (1), which is located in a State with an installed electrical generating capacity of more than 30,000,000 kw in 1988 and for which was issued a prohibition order or a proposed prohibition order (from burning oil), which unit subsequently converted to coal between January 1, 1980 and December 31, 1985, allowances equal to the difference between (A) the product of the unit's annual fuel consumption, on a Btu basis, at a 65 percent capacity factor multiplied by the lesser of its actual or allowable emissions rate during the first full calendar year after conversion, divided by 2,000, and (B) the number of allowances allocated for the unit pursuant to paragraph (1): *Provided*, That the number of allowances allocated pursuant to this paragraph shall not exceed an annual total of five thousand. If necessary to meeting the restriction imposed in the preceding sentence the Administrator shall reduce, pro rata, the annual allowances allocated for each unit under this paragraph.

(c) COAL OR OIL-FIRED UNITS BELOW 75 MWE AND ABOVE 1.20 LBS/MMBTU.—(1) Except as otherwise provided in paragraph (3), after January 1, 2000, it shall be unlawful for a coal or oil-fired existing utility unit that serves a generator with nameplate capacity of less than 75 MWE and an actual 1985 emission rate equal to, or greater than, 1.20 lbs/mmBtu and which is a unit owned by a utility operating company whose aggregate nameplate fossil fuel steam-electric capacity is, as of December 31, 1989, equal to, or greater than, 250 MWe to exceed an annual sulfur dioxide emissions limitation equal to the product of the unit's baseline multiplied by an emission rate equal to 1.20 lbs/mmBtu, divided by 2,000, unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(2) After January 1, 2000, it shall be unlawful for a coal or oil-fired existing utility unit that serves a generator with nameplate capacity of less than 75 MWe and an actual 1985 emission rate equal to, or greater than, 1.20 lbs/mmBtu (excluding units subject to section 111 of the Act or to a federally enforceable emissions limitation for sulfur dioxide equivalent to an annual rate of less than 1.20 lbs/mmBtu) and which is a unit owned by a utility operating company whose aggregate nameplate fossil fuel steam-electric capacity is, as of December 31, 1989, less than 250 MWe, to exceed an annual sulfur dioxide tonnage emissions limitation equal to the product of the unit's baseline multiplied by the lesser of its actual 1985 emissions rate or its allowable 1985 emissions rate, divided by 2,000, unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(3) After January 1, 2000, it shall be unlawful for any existing utility unit with a nameplate capacity below 75 MWe and an actual 1985 emissions rate equal to, or greater than, 1.20 lbs/mmBtu which became operational on or before December 31, 1965, which is owned by a utility operating company with, as of December 31, 1989, a total fossil fuel steam-electric generating capacity greater than 250 MWe, and less than 450 MWe which serves fewer than 78,000 electrical customers as of the date of enactment of the Clean Air Act Amendments of 1990 to exceed an annual sulfur dioxide emissions tonnage limitation equal to the product of its baseline multiplied by the lesser of its actual or allowable 1985 emission rate, divided by 2,000, unless the owner or operator holds allowances to emit not less than the unit's total annual emissions. After January 1, 2010, it shall be unlawful for each unit subject to the emissions limitation requirements of this paragraph to exceed an annual emissions tonnage limitation equal to the product of its baseline multiplied by an emissions rate of 1.20 lbs/mmBtu, divided by 2,000, unless the owner or operator holds allowances to emit not less than the unit's total annual emissions.

(4) In addition to allowances allocated pursuant to paragraph (1) and section 403(a)(1) as basic Phase II allowance allocations, beginning January 1, 2000, and for each calendar year thereafter until and including 2009, inclusive, the Administrator shall allocate annually for each unit subject to the emissions limitation requirements of paragraph (1) with an actual 1985 emissions rate equal to, or greater than, 1.20 lbs/mmBtu and less than 2.50 lbs/mmBtu and a baseline capacity factor of less than 60 percent, allowances from the reserve created pursuant to subsection (a)(2) in an amount equal to 1.20 lbs/mmBtu multiplied by 50 percent of the difference, on a Btu basis, between the unit's baseline and the unit's fuel consumption at a 60 percent capacity factor.

(5) After January 1, 2000, it shall be unlawful for any existing utility unit with a nameplate capacity below 75 Mwe and an actual 1985 emissions rate equal to, or greater than, 1.20 lbs/mmBtu which is part of an electric utility system which, as of the date of the enactment of the Clean Air Act Amendments of 1990, (A) has at least 20 percent of its fossil-fuel capacity controlled by flue gas desulfurization devices, (B) has more than 10 percent of its fossil-fuel capacity consisting of coal-fired units of less than 75 Mwe, and (C) has large units (greater than 400 Mwe) all of which have difficult or very difficult FGD Retrofit Cost Factors (according to the Emissions and the FGD Retrofit Feasibility at the 200 Top Emitting Generating Stations, prepared for the United States Environmental Protection Agency on January 10, 1986) to exceed an annual sulfur dioxide emissions tonnage limitation equal to the product of its baseline multiplied by an emissions rate of 2.5 lbs/mmBtu, divided by 2,000, unless the owner or operator holds allowances to emit not less than the unit's total annual emissions. After January 1, 2010, it shall be unlawful for each unit subject to the emissions limitation requirements of this paragraph to exceed an annual emissions tonnage limitation equal to the product of its baseline multiplied by an emissions rate of 1.20 lbs/

mmBtu, divided by 2,000, unless the owner or operator holds for use allowances to emit not less than the unit's total annual emissions.

(d) COAL-FIRED UNITS BELOW 1.20 LBS/MMBTU.—(1) After January 1, 2000, it shall be unlawful for any existing coal-fired utility unit the lesser of whose actual or allowable 1985 sulfur dioxide emissions rate is less than 0.60 lbs/mmBtu to exceed an annual sulfur dioxide tonnage emission limitation equal to the product of the unit's baseline multiplied by (A) the lesser of 0.60 lbs/mmBtu or the unit's allowable 1985 emissions rate, and (B) a numerical factor of 120 percent, divided by 2,000, unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(2) After January 1, 2000, it shall be unlawful for any existing coal-fired utility unit the lesser of whose actual or allowable 1985 sulfur dioxide emissions rate is equal to, or greater than, 0.60 lbs/mmBtu and less than 1.20 lbs/mmBtu to exceed an annual sulfur dioxide tonnage emissions limitation equal to the product of the unit's baseline multiplied by (A) the lesser of its actual 1985 emissions rate or its allowable 1985 emissions rate, and (B) a numerical factor of 120 percent, divided by 2,000, unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(3)(A) In addition to allowances allocated pursuant to paragraph (1) and section 403(a)(1) as basic Phase II allowance allocations, at the election of the designated representative of the operating company, beginning January 1, 2000, and for each calendar year thereafter until and including 2009, the Administrator shall allocate annually for each unit subject to the emissions limitation requirements of paragraph (1) allowances from the reserve created pursuant to subsection (a)(2) in an amount equal to the amount by which (i) the product of the lesser of 0.60 lbs/mmBtu or the unit's allowable 1985 emissions rate multiplied by the unit's baseline adjusted to reflect operation at a 60 percent capacity factor, divided by 2,000, exceeds (ii) the number of allowances allocated for the unit pursuant to paragraph (1) and section 403(a)(1) as basic Phase II allowance allocations.

(B) In addition to allowances allocated pursuant to paragraph (2) and section 403(a)(1) as basic Phase II allowance allocations, at the election of the designated representative of the operating company, beginning January 1, 2000, and for each calendar year thereafter until and including 2009, the Administrator shall allocate annually for each unit subject to the emissions limitation requirements of paragraph (2) allowances from the reserve created pursuant to subsection (a)(2) in an amount equal to the amount by which (i) the product of the lesser of the unit's actual 1985 emissions rate or its allowable 1985 emissions rate multiplied by the unit's baseline adjusted to reflect operation at a 60 percent capacity factor, divided by 2,000, exceeds (ii) the number of allowances allocated for the unit pursuant to paragraph (2) and section 403(a)(1) as basic Phase II allowance allocations.

(C) An operating company with units subject to the emissions limitation requirements of this subsection may elect the allocation of allowances as provided under subparagraphs (A) and (B). Such election shall apply to the annual allowance allocation for each and every unit in the operating company subject to the emissions limitation requirements of this subsection. The Administrator shall allocate allowances pursuant to subparagraphs (A) and (B) only in accordance with this subparagraph.

(4) Notwithstanding any other provision of this section, at the election of the owner or operator, after January 1, 2000, the Administrator shall allocate in lieu of allocation, pursuant to paragraph (1), (2), (3), (5), or (6), allowances for a unit subject to the emissions limitation requirements of this subsection which commenced commercial operation on or after January 1, 1981 and before December 31, 1985, which was subject to, and in compliance with, section 111 of the Act in an amount equal to the unit's annual fuel consumption, on a Btu basis, at a 65 percent capacity factor multiplied by the unit's allowable 1985 emissions rate, divided by 2,000.

(5) For the purposes of this section, in the case of an oil- and gas-fired unit which has been awarded a clean coal technology demonstration grant as of January 1, 1991, by the United States Department of Energy, beginning January 1, 2000, the Administrator shall allocate for the unit allowances in an amount equal to the unit's baseline multiplied by 1.20 lbs/mmBtu, divided by 2,000.

(e) OIL AND GAS-FIRED UNITS EQUAL TO OR GREATER THAN 0.60 LBS/MMBTU AND LESS THAN 1.20 LBS/MMBTU.—After January 1, 2000, it shall be unlawful for any existing oil and gas-fired utility unit the lesser of whose actual or allowable 1985 sulfur dioxide emission rate is equal to, or greater than, 0.60 lbs/mmBtu, but less than 1.20 lbs/mmBtu to exceed an annual sulfur dioxide tonnage limitation equal to the product of the unit's baseline multiplied by (A) the lesser of the unit's allowable 1985 emissions rate or its actual 1985 emissions rate and (B) a numerical factor of 120 percent divided by 2,000, unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(f) OIL AND GAS-FIRED UNITS LESS THAN 0.60 LBS/MMBTU.—(1) After January 1, 2000, it shall be unlawful for any oil and gas-fired existing utility unit the lesser of whose actual or allowable 1985 emission rate is less than 0.60 lbs/mmBtu and whose average annual fuel consumption during the period 1980 through 1989 on a Btu basis was 90 percent or less in the form of natural gas to exceed an annual sulfur dioxide tonnage emissions limitation equal to the product of the unit's baseline multiplied by (A) the Lesser of 0.60 lbs/mmBtu or the unit's allowable 1985 emissions, and (B) a numerical factor of 120 percent, divided by 2,000, unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(2) In addition to allowances allocated pursuant to paragraph (1) as basic Phase II allowance allocations and section 403(a)(1), beginning January 1, 2000, the Administrator shall, in the case of any unit operated

by a utility that furnishes electricity, electric energy, steam, and natural gas within an area consisting of a city and 1 contiguous county, and in the case of any unit owned by a State authority, the output of which unit is furnished within that same area consisting of a city and 1 contiguous county, the Administrator shall allocate for each unit in the utility its pro rata share of 7,000 allowances and for each unit in the State authority its pro rata share of 2,000 allowances.

(g) UNITS THAT COMMENCE OPERATION BETWEEN 1986 AND DECEMBER 31, 1995.—(1) After January 1, 2000, it shall be unlawful for any utility unit that has commenced commercial operation on or after January 1, 1986, but not later than September 30, 1990 to exceed an annual tonnage emission limitation equal to the product of the unit's annual fuel consumption, on a Btu basis, at a 65 percent capacity factor multiplied by the unit's allowable 1985 sulfur dioxide emission rate (converted, if necessary, to pounds per mmBtu), divided by 2,000 unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(2) After January 1, 2000, the Administrator shall allocate allowances pursuant to section 403 to each unit which is listed in table B of this paragraph in an annual amount equal to the amount specified in table B.

Table B

<i>Unit</i>	<i>Allowances</i>
Brandon Shores	8,907
Miller 4	9,197
TNP One 2	4,000
Zimmer 1	18,458
Spruce 1	7,647
Clover 1	2,796
Clover 2	2,796
Twin Oak 2	1,760
Twin Oak 1	9,158
Cross 1	6,401
Malakoff 1	1,759

Notwithstanding any other paragraph of this subsection, for units subject to this paragraph, the Administrator shall not allocate allowances pursuant to any other paragraph of this subsection, Provided that the owner or operator of a unit listed on Table B may elect an allocation of allowances under another paragraph of this subsection in lieu of an allocation under this paragraph.

(3) Beginning January 1, 2000, the Administrator shall allocate to the owner or operator of any utility unit that commences commercial operation, or has commenced commercial operation, on or after October 1, 1990, but not later than December 31, 1992 allowances in an amount equal to the product of the unit's annual fuel consumption, on a Btu basis, at a 65 percent capacity factor multiplied by the lesser of 0.30 lbs/mmBtu or the unit's allowable sulfur dioxide emission rate (converted, if necessary, to pounds per mmBtu), divided by 2,000.

(4) Beginning January 1, 2000, the Administrator shall allocate to the owner or operator of any utility unit that has commenced construction before December 31, 1990 and that commences commercial operation between January 1, 1993 and December 31, 1995, allowances in an amount equal to the product of the unit's annual fuel consumption, on a Btu basis, at a 65 percent capacity factor multiplied by the lesser of 0.30 lbs/mmBtu or the unit's allowable sulfur dioxide emission rate (converted, if necessary, to pounds per mmBtu), divided by 2,000.

(5) After January 1, 2000, it shall be unlawful for any existing utility unit that has completed conversion from predominantly gas fired existing operation to coal fired operation between January 1, 1985 and December 31, 1987, for which there has been allocated a proposed or final prohibition order pursuant to section 301(b) of the Powerplant and Industrial Fuel Use Act of 1978 (42 U.S.C. 8301 et seq., repealed 1987) to exceed an annual sulfur dioxide tonnage emissions limitation equal to the product of the unit's annual fuel consumption, on a Btu basis, at a 65 percent capacity factor multiplied by the lesser of 1.20 lbs/mmBtu or the unit's allowable 1987 sulfur dioxide emissions rate, divided by 2,000, unless the owner or operator of such unit has obtained allowances equal to its actual emissions.

(6)(A) Unless the Administrator has approved a designation of such facility under section 410, the provisions of this title shall not apply to a "qualifying small power production facility" or "qualifying cogeneration facility" (within the meaning of section 3(17)(C) or 3(18)(B) of the Federal Power Act) or to a "new independent power production facility" as defined in section 416 except that clause (iii) of such definition in section 416 shall not apply for purposes of this paragraph if, as of the date of enactment,

(i) an applicable power sales agreement has been executed;

(ii) the facility is the subject of a State regulatory authority order requiring an electric utility to enter into a power sales agreement with, purchase capacity from, or (for purposes of establishing terms and conditions of the electric utility's purchase of power) enter into arbitration concerning, the facility;

(iii) an electric utility has issued a letter of intent or similar instrument committing to purchase power from the facility at a previously offered or lower price and a power sales agreement is executed within a reasonable period of time; or

(iv) the facility has been selected as a winning bidder in a utility competitive bid solicitation.

(h) OIL AND GAS-FIRED UNITS LESS THAN 10 PERCENT OIL CONSUMED.—

(1) After January 1, 2000, it shall be unlawful for any oil- and gas-fired utility unit whose average annual fuel consumption during the period 1980 through 1989 on a Btu basis exceeded 90 percent in the form of natural gas to exceed an annual sulfur dioxide tonnage limitation equal to the product of the unit's

baseline multiplied by the unit's actual 1985 emissions rate divided by 2,000 unless the owner or operator of such unit holds allowances to emit not less than the unit's total annual emissions.

(2) In addition to allowances allocated pursuant to paragraph (1) and section 403(a)(1) as basic Phase II allowance allocations, beginning January 1, 2000, and for each calendar year thereafter until and including 2009, the Administrator shall allocate annually for each unit subject to the emissions limitation requirements of paragraph (1) allowances from the reserve created pursuant to subsection (a)(2) in an amount equal to the unit's baseline multiplied by 0.050 lbs/mmBtu, divided by 2,000.

(3) In addition to allowances allocated pursuant to paragraph (1) and section 403(a)(1), beginning January 1, 2010, the Administrator shall allocate annually for each unit subject to the emissions limitation requirements of paragraph (1) allowances in an amount equal to the unit's baseline multiplied by 0.050 lbs/mmBtu, divided by 2,000.

(i) **UNITS IN HIGH GROWTH STATES.**—(1) In addition to allowances allocated pursuant to this section and section 403(a)(1) as basic Phase II allowance allocations, beginning January 1, 2000, the Administrator shall allocate annually allowances for each unit, subject to an emissions limitation requirement under this section, and located in a State that—

(A) has experienced a growth in population in excess of 25 percent between 1980 and 1988 according to State Population and Household Estimates, With Age, Sex, and Components of Change: 1981-1988 allocated by the United States Department of Commerce, and

(B) had an installed electrical generating capacity of more than 30,000,000 kw in 1988,

in an amount equal to the difference between (A) the number of allowances that would be allocated for the unit pursuant to the emissions limitation requirements of this section applicable to the unit adjusted to reflect the unit's annual average fuel consumption on a Btu basis of any three consecutive calendar years between 1980 and 1989 (inclusive) as elected by the owner or operator and (B) the number of allowances allocated for the unit pursuant to the emissions limitation requirements of this section: *Provided*, That the number of allowances allocated pursuant to this subsection shall not exceed an annual total of 40,000. If necessary to meeting the 40,000 allowance restriction imposed under this subsection the Administrator shall reduce, pro rata, the additional annual allowances allocated to each unit under this subsection.

(2) Beginning January 1, 2000, in addition to allowances allocated pursuant to this section and section 403(a)(1) as basic Phase II allowance allocations, the Administrator shall allocate annually for each unit subject to the emissions limitation requirements of subsection (b)(1), (A) the lesser of whose actual or allowable 1980 emissions rate has declined by 50

percent or more as of the date of enactment of the Clean Air Act Amendments of 1990, (B) whose actual emissions rate is less than 1.2 lbs/mmBtu as of January 1, 2000, (C) which commenced operation after January 1, 1970, (D) which is owned by a utility company whose combined commercial and industrial kilowatt-hour sales have increased by more than 20 percent between calendar year 1980 and the date of enactment of the Clean Air Act Amendments of 1990, and (E) whose company-wide fossil-fuel sulfur dioxide emissions rate has declined 40 percent or more from 1980 to 1988, allowances in an amount equal to the difference between (i) the number of allowances that would be allocated for the unit pursuant to the emissions limitation requirements of subsection (b)(1) adjusted to reflect the unit's annual average fuel consumption on a Btu basis for any three consecutive years between 1980 and 1989 (inclusive) as elected by the owner or operator and (ii) the number of allowances allocated for the unit pursuant to the emissions limitation requirements of subsection (b)(1): *Provided*, That the number of allowances allocated pursuant to this paragraph shall not exceed an annual total of 5,000. If necessary to meeting the 5,000-allowance restriction imposed in the last clause of the preceding sentence the Administrator shall reduce, pro rata, the additional allowances allocated to each unit pursuant to this paragraph.

(j) CERTAIN MUNICIPALLY OWNED POWER PLANTS.—Beginning January 1, 2000, in addition to allowances allocated pursuant to this section and section 403(a)(1) as basic Phase II allowance allocations, the Administrator shall allocate annually for each existing municipally owned oil and gas-fired utility unit with nameplate capacity equal to, or less than, 40 MWe, the lesser of whose actual or allowable 1985 sulfur dioxide emission rate is less than 1.20 lbs/mmBtu, allowances in an amount equal to the product of the unit's annual fuel consumption on a Btu basis at a 60 percent capacity factor multiplied by the lesser of its allowable 1985 emission rate or its actual 1985 emission rate, divided by 2,000.

[¶ 2406]

Sec. 406. ALLOWANCES FOR STATES WITH EMISSIONS RATES AT OR BELOW 0.80 LBS/MMBTU.

(a) ELECTION OF GOVERNOR.—In addition to basic Phase II allowance allocations, upon the election of the Governor of any State, with a 1985 statewide annual sulfur dioxide emissions rate equal to or less than, 0.80 lbs/mmBtu, averaged over all fossil fuel-fired utility steam generating units, beginning January 1, 2000, and for each calendar year thereafter until and including 2009, the Administrator shall allocate, in lieu of other Phase II bonus allowance allocations, allowances from the reserve created pursuant to section 405(a)(2) to all such units in the State in an amount equal to 125,000 multiplied by the unit's pro rata share of electricity generated in calendar year 1985 at fossil fuel-fired utility steam units in all States eligible for the election.

(b) NOTIFICATION OF ADMINISTRATOR.—Pursuant to section 403(a)(1), each Governor of a State eligible to make an election under paragraph (a) shall notify the Administrator of such election. In the event that the Governor of any such State fails to notify the Administrator of the Governor's elections, the Administrator shall allocate allowances pursuant to section 405.

(c) ALLOWANCES AFTER JANUARY 1, 2010.—After January 1, 2010, the Administrator shall allocate allowances to units subject to the provisions of this section pursuant to section 405.

[¶ 2407]

Sec. 407. NITROGEN OXIDES EMISSION REDUCTION PROGRAM

(a) APPLICABILITY.—On the date that a coal-fired utility unit becomes an affected unit pursuant to sections 404, 405, 409, or on the date a unit subject to the provisions of section 404(d) or 409(b), must meet the SO₂ reduction requirements, each such unit shall become an affected unit for purposes of this section and shall be subject to the emission limitations for nitrogen oxides set forth herein.

(b) EMISSION LIMITATIONS.—(1) Not later than eighteen months after enactment of the Clean Air Act Amendments of 1990, the Administrator shall by regulation establish annual allowable emission limitations for nitrogen oxides for the types of utility boilers listed below, which limitations shall not exceed the rates listed below: *Provided*, That the Administrator may set a rate higher than that listed for any type of utility boiler if the Administrator finds that the maximum listed rate for that boiler type cannot be achieved using low NO_x burner technology. The maximum allowable emission rates are as follows:

(A) for tangentially fired boilers, 0.45 lb/mmBtu;

(B) for dry bottom wall-fired boilers (other than units applying cell burner technology), 0.50 lb/mmBtu.

After January 1, 1995, it shall be unlawful for any unit that is an affected unit on that date and is of the type listed in this paragraph to emit nitrogen oxides in excess of the emission rates set by the Administrator pursuant to this paragraph.

(2) Not later than January 1, 1997, the Administrator shall, by regulation, establish allowable emission limitations on a lb/mmBtu, annual average basis, for nitrogen oxides for the following types of utility boilers:

(A) wet bottom wall-fired boilers;

(B) cyclones;

(C) units applying cell burner technology;

(D) all other types of utility boilers.

The Administrator shall base such rates on the degree of reduction achievable through the retrofit application of the best system of continuous emission reduction, taking into account available technology, costs and energy and environmental impacts; and which is comparable to the

costs of nitrogen oxides controls set pursuant to subsection (b)(1). Not later than January 1, 1997, the Administrator may revise the applicable emission limitations for tangentially fired and dry bottom, wall-fired boilers (other than cell burners) to be more stringent if the Administrator determines that more effective low NO_x burner technology is available: *Provided*, That, no unit that is an affected unit pursuant to section 404 and that is subject to the requirements of subsection (b)(1), shall be subject to the revised emission limitations, if any.

(c) REVISED PERFORMANCE STANDARDS.—(1) Not later than January 1, 1993, the Administrator shall propose revised standards of performance to section 111 for nitrogen oxides emissions from fossil-fuel fired steam generating units, including both electric utility and nonutility units. Not later than January 1, 1994, the Administrator shall promulgate such revised standards of performance. Such revised standards of performance shall reflect improvements in methods for the reduction of emissions of oxides of nitrogen.

(d) ALTERNATIVE EMISSION LIMITATIONS.—The permitting authority shall, upon request of an owner or operator of a unit subject to this section, authorize an emission limitation less stringent than the applicable limitation established under subsection (b)(1) or (b)(2) upon a determination that—

(1) a unit subject to subsection (b)(1) cannot meet the applicable limitation using low NO_x burner technology; or

(2) a unit subject to subsection (b)(2) cannot meet the applicable rate using the technology on which the Administrator based the applicable emission limitation.

The permitting authority shall base such determination upon a showing satisfactory to the permitting authority, in accordance with regulations established by the Administrator not later than eighteen months after enactment of the Clean Air Act Amendments of 1990, that the owner or operator—

(1) has properly installed appropriate control equipment designed to meet the applicable emission rate;

(2) has properly operated such equipment for a period of fifteen months (or such other period of time as the Administrator determines through the regulations), and provides operating and monitoring data for such period demonstrating that the unit cannot meet the applicable emission rate; and

(3) has specified an emission rate that such unit can meet on an annual average basis.

The permitting authority shall issue an operating permit for the unit in question, in accordance with section 408 and part B of title III—

(i) that permits the unit during the demonstration period referred to in subparagraph (2) above, to emit at a rate in excess of the applicable emission rate;

(ii) at the conclusion of the demonstration period to revise the operating permit to reflect the alternative emission rate demonstrated in paragraphs (2) and (3) above.

Units subject to subsection (b)(1) for which an alternative emission limitation is established shall not be required to install any additional control technology beyond low NO_x burners. Nothing in this section shall preclude an owner or operator from installing and operating an alternative NO_x control technology capable of achieving the applicable emission limitation. If the owner or operator of a unit subject to the emissions limitation requirements of subsection (b)(1) demonstrates to the satisfaction of the Administrator that the technology necessary to meet such requirements is not in adequate supply to enable its installation and operation at the unit, consistent with system reliability, by January 1, 1995, then the Administrator shall extend the deadline for compliance for the unit by a period of 15 months. Any owner or operator may petition the Administrator to make a determination under the previous sentence. The Administrator shall grant or deny such petition within 3 months of submittal.

(e) EMISSIONS AVERAGING.—In lieu of complying with the applicable emission limitations under subsection (b)(1), (2), or (d), the owner or operator of two or more units subject to one or more of the applicable emission limitations set pursuant to these sections, may petition the permitting authority for alternative contemporaneous annual emission limitations for such units that ensure that (1) the actual annual emission rate in pounds of nitrogen oxides per million Btu averaged over the units in question is a rate that is less than or equal to (2) the Btu-weighted average annual emission rate for the same units if they had been operated, during the same period of time, in compliance with limitations set in accordance with the applicable emission rates set pursuant to subsections (b)(1) and (2).

If the permitting authority determines, in accordance with regulations issued by the administrator not later than eighteen months after enactment of the Clean Air Act Amendments of 1990; that the conditions in the paragraph above can be met, the permitting authority shall issue operating permits for such units, in accordance with section 408 and part B of title III, that allow alternative contemporaneous annual emission limitations. Such emission limitations shall only remain in effect while both units continue operation under the conditions specified in their respective operating permits.

[¶ 2408]

Sec. 408. PERMITS AND COMPLIANCE PLANS

(a) PERMIT PROGRAM.—The provisions of this title shall be implemented, subject to section 403, by permits issued to units subject to this title (and enforced) in accordance with the provisions of title V, as modified by this title. Any such permit issued by the Administrator, or by a State with an approved permit program, shall prohibit—

(1) annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide the owner or operator, or the designated representative of the owners or operators, of the unit hold for the unit,

- (2) exceedances of applicable emissions rates,
- (3) the use of any allowance prior to the year for which it was allocated, and
- (4) contravention of any other provision of the permit.

Permits issued to implement this title shall be issued for a period of 5 years, notwithstanding title V. No permit shall be issued that is inconsistent with the requirements of this title, and title V as applicable.

(b) COMPLIANCE PLAN.—Each initial permit application shall be accompanied by a compliance plan for the source to comply with its requirements under this title. Where an affected source consists of more than one affected unit, such plan shall cover all such units, and for purposes of section 502(c), such source shall be considered a “facility”. Nothing in this section regarding compliance plans or in title V shall be construed as affecting allowances. Except as provided under subsection (c)(1)(B), submission of a statement by the owner or operator, or the designated representative of the owners and operators, of a unit subject to the emissions limitation requirements of sections 404, 405, and 407, that the unit will meet the applicable emissions limitation requirements of such sections in a timely manner or that, in the case of the emissions limitation requirements of sections 404 and 405, the owners and operators will hold allowances to emit not less than the total annual emissions of the unit, shall be deemed to meet the proposed and approved compliance planning requirements of this section and title V, except that, for any unit that will meet the requirements of this title by means of an alternative method of compliance authorized under section 404(b), (c), (d), or (f) section 407(d) or (e), section 409 and section 410, the proposed and approved compliance plan, permit application and permit shall include, pursuant to regulations promulgated by the Administrator, for each alternative method of compliance a comprehensive description of the schedule and means by which the unit will rely on one or more alternative methods of compliance in the manner and time authorized under this title. Recordation by the Administrator of transfers of allowances shall amend automatically all applicable proposed or approved permit applications, compliance plans and permits. The Administrator may also require—

(1) for a source, a demonstration of attainment of national ambient air quality standards, and

(2) from the owner or operator of two or more affected sources, an integrated compliance plan providing an overall plan for achieving compliance at the affected sources.

(c) FIRST PHASE PERMITS.—The Administrator shall issue permits to affected sources under sections 404 and 407.

(1) PERMIT APPLICATION AND COMPLIANCE PLAN.—(A) Not later than 27 months after the date of the enactment of the Clean Air Act Amendments of 1990, the designated representative of the owners or operators, or the owner and operator, of each affected source under sections 404 and 407 shall submit a permit application and compliance plan for that

source in accordance with regulations issued by the Administrator under paragraph (3). The permit application and the compliance plan shall be binding on the owner or operator or the designated representative of owners and operators for purposes of this title and section 402(a), and shall be enforceable in lieu of a permit until a permit is issued by the Administrator for the source.

(B) In the case of a compliance plan for an affected source under sections 404 and 407 for which the owner or operator proposes to meet the requirements of that section by reducing utilization of the unit as compared with its baseline or by shutting down the unit, the owner or operator shall include in the proposed compliance plan a specification of the unit or units that will provide electrical generation to compensate for the reduced output at the affected source, or a demonstration that such reduced utilization will be accomplished through energy conservation or improved unit efficiency. The unit to be used for such compensating generation, which is not otherwise an affected unit under sections 404 and 407, shall be deemed an affected unit under section 404, subject to all of the requirements for such units under this title, except that allowances shall be allocated to such compensating unit in the amount of an annual limitation equal to the product of the unit's baseline multiplied by the lesser of the unit's actual 1985 emissions rate or its allowable 1985 emissions rate, divided by 2,000

(2) EPA ACTION ON COMPLIANCE PLANS.—The Administrator shall review each proposed compliance plan to determine whether it satisfies the requirements of this title, and shall approve or disapprove such plan within 6 months after receipt of a complete submission. If a plan is disapproved, it may be resubmitted for approval with such changes as the Administrator shall require consistent with the requirements of this title and within such period as the Administrator prescribes as part of such disapproval.

(3) REGULATIONS; ISSUANCE OF PERMITS.—Not later than 18 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations, in accordance with title V, to implement a Federal permit program to issue permits for affected sources under this title. Following promulgation, the Administrator shall issue a permit to implement the requirements of section 404 and the allowances provided under section 403 to the owner or operator of each affected source under section 404. Such a permit shall supersede any permit application and compliance plan submitted under paragraph (1).

(4) FEES.—During the years 1995 through 1999 inclusive, no fee shall be required to be paid under section 502(b)(3) or under section 110(a)(2)(L) with respect to emissions from any unit which is an affected unit under section 404.

(d) SECOND PHASE PERMITS.—(1) To provide for permits for (A) new electric utility steam generating units required under section 403(e) to have allowances, (B) affected units or sources under section 405, and (C) existing

units subject to nitrogen oxide emission reductions under section 407, each State in which one or more such units or sources are located shall submit in accordance with title V, a permit program for approval as provided by that title. Upon approval of such program, for the units or sources subject to such approved program the Administrator shall suspend the issuance of permits as provided in title V.

(2) The owner or operator or the designated representative of each affected source under section 405 shall submit a permit application and compliance plan for that source to the permitting authority, not later than January 1, 1996.

(3) Not later than December 31, 1997, each State with an approved permit program shall issue permits to the owner or operator, or the designated representative of the owners and operators, of affected sources under section 405 that satisfy the requirements of title V and this title and that submitted to such State a permit application and compliance plan pursuant to paragraph (2). In the case of a State without an approved permit program by July 1, 1996, the Administrator shall, not later than January 1, 1998, issue a permit to the owner or operator or the designated representative of each such affected source. In the case of affected sources for which applications and plans are timely received under paragraph (2), the permit application and the compliance plan, including amendments thereto, shall be binding on the owner or operator or the designated representative of the owners or operators and shall be enforceable as a permit for purposes of this title and title V until a permit is issued by the permitting authority for the affected source. The provisions of section 558(c) of title V of the United States Code (relating to renewals) shall apply to permits issued by a permitting authority under this title and title V.

(4) The permit issued in accordance with this subsection for an affected source shall provide that the affected units at the affected source may not emit an annual tonnage of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide the owner or operator or designated representative hold for the unit.

(e) NEW UNITS.—The owner or operator of each source that includes a new electric utility steam generating unit shall submit a permit application and compliance plan to the permitting authority not later than 24 months before the later of (1) January 1, 2000, or (2) the date on which the unit commences operation. The permitting authority shall issue a permit to the owner or operator, or the designated representative thereof, of the unit that satisfies the requirements of title V and this title.

(f) UNITS SUBJECT TO CERTAIN OTHER LIMITS.—The owner or operator, or designated representative thereof, of any unit subject to an emission rate requirement under section 407 shall submit a permit application and compliance plan for such unit to the permitting authority, not later than January 1, 1998. The permitting authority shall issue a permit to the owner or operator that satisfies the requirements of title V and this title, including any appropriate monitoring and reporting requirements.

(g) AMENDMENT OF APPLICATION AND COMPLIANCE PLAN.—At any time after the submission of an application and compliance plan under this section, the applicant may submit a revised application and compliance plan, in accordance with the requirements of this section. In considering any permit application and compliance plan under this title, the permitting authority shall ensure coordination with the applicable electric ratemaking authority, in the case of regulated utilities, and with unregulated public utilities.

(h) PROHIBITION.—(1) It shall be unlawful for an owner or operator, or designated representative, required to submit a permit application or compliance plan under this title to fail to submit such application or plan in accordance with the deadlines specified in this section or to otherwise fail to comply with regulations implementing this section.

(2) It shall be unlawful for any person to operate any source subject to this title except in compliance with the terms and requirements of a permit application and compliance plan (including amendments thereto) or permit issued by the Administrator or a State with an approved permit program. For purposes of this subsection, compliance, as provided in section 504(f), with a permit issued under title V which complies with this title for sources subject to this title shall be deemed compliance with this subsection as well as section 502(a).

(3) In order to ensure reliability of electric power, nothing in this title or title V shall be construed as requiring termination of operations of an electric utility steam generating unit for failure to have an approved permit or compliance plan, except that any such unit may be subject to the applicable enforcement provisions of section 113.

(i) MULTIPLE OWNERS.—No permit shall be issued under this section to an affected unit until the designated representative of the owners or operators has filed a certificate of representation with regard to matters under this title, including the holding and distribution of allowances and the proceeds of transactions involving allowances. Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, such a unit, or where a utility or industrial customer purchases power from an affected unit (or units) under life-of-the-unit, firm power contractual arrangements, the certificate shall state (1) that allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement, or (2) if such multiple holders have expressly provided for a different distribution of allowances by contract, that allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in accordance with the contract. A passive lessor, or a person who has an equitable interest through such lessor, whose rental payments are not based, either directly or indirectly, upon the revenues or income from the affected unit shall not be deemed to be a holder of a legal, equitable, leasehold, or contractual interest for the purpose of holding or distributing allowances as provided in this subsection, during either the term of such leasehold or thereafter, unless expressly provided for in the leasehold agreement. Except as otherwise provided in this subsection, where all legal or equitable title to or interest in an

affected unit is held by a single person, the certification shall state that all allowances received by the unit are deemed to be held for that person.

[¶ 2409]

Sec. 409. REPOWERED SOURCES.

(a) AVAILABILITY.—Not later than December 31, 1997, the owner or operator of an existing unit subject to the emissions limitation requirements of section 405(b) and (c) may demonstrate to the permitting authority that one or more units will be repowered with a qualifying clean coal technology to comply with the requirements under section 405. The owner or operator shall, as part of any such demonstration, provide, not later than January 1, 2000, satisfactory documentation of a preliminary design and engineering effort for such repowering and an executed and binding contract for the majority of the equipment to repower such unit and such other information as the Administrator may require by regulation. The replacement of an existing utility unit with a new utility unit using a repowering technology referred to in section 402(2) which is located at a different site, shall be treated as repowering of the existing unit for purposes of this title, if—

(1) the replacement unit is designated by the owner or operator to replace such existing unit, and

(2) the existing unit is retired from service on or before the date on which the designated replacement unit enters commercial operation.

(b) EXTENSION.—(1) An owner or operator satisfying the requirements of subsection (a) shall be granted an extension of the emission limitation requirement compliance date for that unit from January 1, 2000, to December 31, 2003. The extension shall be specified in the permit issued to the source under section 408, together with any compliance schedule and other requirements necessary to meet second phase requirements by the extended date. Any unit that is granted an extension under this section shall not be eligible for a waiver under section 111(j) of this Act, and shall continue to be subject to requirements under this title as if it were a unit subject to section 405.

(2) If (A) the owner or operator of an existing unit has been granted an extension under paragraph (1) in order to repower such unit with a clean coal unit, and (B) such owner or operator demonstrates to the satisfaction of the Administrator that the repowering technology to be utilized by such unit has been properly constructed and tested on such unit, but nevertheless has been unable to achieve the emission reduction limitations and is economically or technologically infeasible, such existing unit may be retrofitted or repowered with equipment or facilities utilizing another clean coal technology or other available control technology.

(c) ALLOWANCES.—(1) For the period of the extension under this section, the Administrator shall allocate to the owner or operator of the affected unit, annual allowances for sulfur dioxide equal to the affected unit's baseline multiplied by the lesser of the unit's federally approved State Implementation Plan emissions limitation or its actual emission rate for 1995 in lieu of any other allocation. Such allowances may not be transferred or used by any other

source to meet emission requirements under this title. The source owner or operator shall notify the Administrator sixty days in advance of the date on which the affected unit for which the extension has been granted is to be removed from operation to install the repowering technology.

(2) Effective on that date, the unit shall be subject to the requirements of section 405. Allowances for the year in which the unit is removed from operation to install the repowering technology shall be calculated as the product of the unit's baseline multiplied by 1.20 lbs/mmBtu, divided by 2,000, and prorated accordingly, and are transferable.

(3) Allowances for such existing utility units for calendar years after the year the repowering is complete shall be calculated as the product of the existing unit's baseline multiplied by 1.20 lbs/mmBtu, divided by 2,000.

(4) Notwithstanding the provisions of section 403(a) and (e), allowances shall be allocated under this section for a designated replacement unit which replaces an existing unit (as provided in the last sentence of subsection (a)) in lieu of any further allocations of allowances for the existing unit.

(5) For the purpose of meeting the aggregate emissions limitation requirement set forth in section 403(a)(1), the units with an extension under this subsection shall be treated in each calendar year during the extension period as holding allowances allocated under paragraph (3).

(d) CONTROL REQUIREMENTS.—Any unit qualifying for an extension under this section that does not increase actual hourly emissions for any pollutant regulated under the Act shall not be subject to any standard of performance under section 111 of this Act. Notwithstanding the provisions of this subsection, no new unit (1) designated as a replacement for an existing unit, (2) qualifying for the extension under subsection (b), and (3) located at a different site than the existing unit shall receive an exemption from the requirements imposed under section 111.

(e) EXPEDITED PERMITTING.—State permitting authorities and, where applicable, the Administrator, are encouraged to give expedited consideration to permit applications under parts C and D of title I of this Act for any source qualifying for an extension under this section.

(f) PROHIBITION.—It shall be unlawful for the owner or operator of a repowered source to fail to comply with the requirement of this section, or any regulations of permit requirements to implement this section, including the prohibition against emitting sulfur dioxide in excess of allowances held.

[¶ 2410]

Sec. 410. ELECTION FOR ADDITIONAL SOURCES.

(a) APPLICABILITY.—The owner or operator of any unit that is not, nor will become, an affected unit under section 403(e), 404, or 405, or that is a process source under subsection (d), that emits sulfur dioxide, may elect to designate that unit or source to become an affected unit and to receive

allowances under this title. An election shall be submitted to the Administrator for approval, along with a permit application and proposed compliance plan in accordance with section 408. The Administrator shall approve a designation that meets the requirements of this section, and such designated unit, or source, shall be allocated allowances, and be an affected unit for purposes of this title.

(b) **ESTABLISHMENT OF BASELINE.**—The baseline for a unit designated under this section shall be established by the Administrator by regulation, based on fuel consumption and operating data for the unit for calendar years 1985, 1986, and 1987, or if such data is not available, the Administrator may prescribe a baseline based on alternative representative data.

(c) **EMISSION LIMITATIONS.**—Annual emissions limitations for sulfur dioxide shall be equal to the product of the baseline multiplied by the lesser of the unit's 1985 actual or allowable emission rate in lbs/mmBtu, or, if the unit did not operate in 1985, by the lesser of the unit's actual or allowable emission rate for a calendar year after 1985 (as determined by the Administrator), divided by 2,000.

(d) **PROCESS SOURCES.**—Not later than 18 months after enactment of the Clean Air Act Amendments of 1990, the Administrator shall establish a program under which the owner or operator of a process source that emits sulfur dioxide may elect to designate that source as an affected unit for the purpose of receiving allowances under this title. The Administrator shall, by regulation, define the sources that may be designated; specify the emissions limitation; specify the operating emission baseline, and other data requirements; prescribe CEMS or other monitoring requirements; and promulgate permit, reporting, and other requirements necessary to implement such a program.

(e) **ALLOWANCES AND PERMITS.**—The Administrator shall issue allowances to an affected unit under this section in an amount equal to the emissions limitation calculated under subsection (c) or (d), in accordance with section 403. Such allowance may be used in accordance with, and shall be subject to, the provisions of section 403. Affected sources under this section shall be subject to the requirements of sections 403, 408, 411, 412, 413, and 414.

(f) **LIMITATION.**—Any unit designated under this section shall not transfer or bank allowances produced as a result of reduced utilization or shutdown, except that, such allowances may be transferred or carried forward for use in subsequent years to the extent that the reduced utilization or shutdown results from the replacement of thermal energy from the unit designated under this section, with thermal energy generated by any other unit or units subject to the requirements of this title, and the designated unit's allowances are transferred or carried forward for use at such other replacement unit or units. In no case may the Administrator allocate to a source designated under this section allowances in an amount greater than the emissions resulting from operation of the source in full compliance with the requirements of this Act. No such allowances shall authorize operation of a unit in violation of any other requirements of this Act.

(g) IMPLEMENTATION.—The Administrator shall issue regulations to implement this section not later than eighteen months after enactment of the Clean Air Act Amendments of 1990.

(h) SMALL DIESEL REFINERIES.—The Administrator shall issue allowances to owners or operators of small diesel refineries who produce diesel fuel after October 1, 1993, meeting the requirements of subsection 211(i) of this Act.

(1) ALLOWANCE PERIOD.—Allowances may be allocated under this subsection only for the period from October 1, 1993, through December 31, 1999.

(2) ALLOWANCE DETERMINATION.—The number of allowances allocated pursuant to this paragraph shall equal the annual number of pounds of sulfur dioxide reduction attributable to desulfurization by a small refinery divided by 2,000. For the purposes of this calculation, the concentration of sulfur removed from diesel fuel shall be the difference between 0.274 percent (by weight) and 0.050 percent (by weight).

(3) REFINERY ELIGIBILITY.—As used in this subsection, the term “small refinery” shall mean a refinery or portion of a refinery—

(A) which, as of the date of enactment of the Clean Air Act Amendments of 1990, has bona fide crude oil throughput of less than 18,250,000 barrels per year, as reported to the Department of Energy, and

(B) which, as of the date of enactment of the Clean Air Act Amendments of 1990, is owned or controlled by a refiner with a total combined bona fide crude oil throughput of less than 50,187,500 barrels per year, as reported to the Department of Energy.

(4) LIMITATION PER REFINERY.—The maximum number of allowances that can be annually allocated to a small refinery pursuant to this subsection is one thousand and five hundred.

(5) LIMITATION ON TOTAL.—In any given year, the total number of allowances allocated pursuant to this subsection shall not exceed thirty-five thousand.

(6) REQUIRED CERTIFICATION.—The Administrator shall not allocate any allowances pursuant to this subsection unless the owner or operator of a small diesel refinery shall have certified, at a time and in a manner prescribed by the Administrator, that all motor diesel fuel produced by the refinery for which allowances are claimed, including motor diesel fuel for off-highway use, shall have met the requirements of subsection 211(i) of this Act.

[¶ 2411]

Sec. 411. EXCESS EMISSIONS PENALTY.

(a) EXCESS EMISSIONS PENALTY.—The owner or operator of any unit or process source subject to the requirements of sections 403, 404, 405, 406, 407, or 409, or designated under section 410, that emits sulfur dioxide or nitrogen oxides for any calendar year in excess of the unit's emissions limitation

requirement or, in the case of sulfur dioxide, of the allowances the owner or operator holds for use for the unit for that calendar year shall be liable for the payment of an excess emissions penalty, except where such emissions were authorized pursuant to section 110(f). That penalty shall be calculated on the basis of the number of tons emitted in excess of the unit's emissions limitation requirement or, in the case of sulfur dioxide, of the allowances the operator holds for use for the unit for that year, multiplied by \$2,000. Any such penalty shall be due and payable without demand to the Administrator as provided in regulations to be issued by the Administrator by no later than eighteen months after the date of enactment of the Clean Air Act Amendments of 1990. Any such payment shall be deposited in the United States Treasury pursuant to the Miscellaneous Receipts Act. Any penalty due and payable under this section shall not diminish the liability of the unit's owner or operator for any fine, penalty or assessment against the unit for the same violation under any section of this Act.

(b) **EXCESS EMISSIONS OFFSET.**—The owner or operator of any affected source that emits sulfur dioxide during any calendar year in excess of the unit's emissions limitation requirement or of the allowances held for the unit for the calendar year, shall be liable to offset the excess emissions by an equal tonnage amount in the following calendar year, or such longer period as the Administrator may prescribe. The owner or operator of the source shall, within sixty days after the end of the year in which the excess emissions occurred, submit to the Administrator, and to the State in which the source is located, a proposed plan to achieve the required offsets. Upon approval of the proposed plan by the Administrator, as submitted, modified or conditioned, the plan shall be deemed at a condition of the operating permit for the unit without further review or revision of the permit. The Administrator shall also deduct allowances equal to the excess tonnage from those allocated for the source for the calendar year, or succeeding years during which offsets are required, following the year in which the excess emissions occurred.

(c) **PENALTY ADJUSTMENT.**—The Administrator shall, by regulation, adjust the penalty specified in subsection (a) for inflation, based on the Consumer Price Index, on the date of enactment and annually thereafter.

(d) **PROHIBITION.**—It shall be unlawful for the owner or operator of any source liable for a penalty and offset under this section to fail (1) to pay the penalty under subsection (a), (2) to provide, and thereafter comply with, a compliance plan as required by subsection (b), or (3) to offset excess emissions as required by subsection (b).

(e) **SAVINGS PROVISION.**—Nothing in this title shall limit or otherwise affect the application of section 113, 114, 120, or 304 except as otherwise explicitly provided in this title.

[¶ 2412]

Sec. 412. MONITORING, REPORTING, AND RECORDKEEPING REQUIREMENTS.

(a) **APPLICABILITY.**—The owner and operator of any source subject to this title shall be required to install and operate CEMS on each affected unit at the

source, and to quality assure the data for sulfur dioxide, nitrogen oxides, opacity and volumetric flow at each such unit. The Administrator shall, by regulations issued not later than eighteen months after enactment of the Clean Air Act Amendments of 1990, specify the requirements for CEMS, for any alternative monitoring system that is demonstrated as providing information with the same precision, reliability, accessibility, and timeliness as that provided by CEMS, and for recordkeeping and reporting of information from such systems. Such regulations may include limitations or the use of alternative compliance methods by units equipped with an alternative monitoring system as may be necessary to preserve the orderly functioning of the allowance system, and which will ensure the emissions reductions contemplated by this title. Where 2 or more units utilize a single stack, a separate CEMS shall not be required for each unit, and for such units the regulations shall require that the owner or operator collect sufficient information to permit reliable compliance determinations for each such unit.

(b) **FIRST PHASE REQUIREMENTS.**—Not later than thirty-six months after enactment of the Clean Air Act Amendments of 1990, the owner or operator of each affected unit under section 404, including, but not limited to, units that become affected units pursuant to subsections (b) and (c) and eligible units under subsection (d), shall install and operate CEMS, quality assure the data, and keep records and reports in accordance with the regulations issued under subsection (a).

(c) **SECOND PHASE REQUIREMENTS.**—Not later than January 1, 1995, the owner or operator of each affected unit that has not previously met the requirements of subsections (a) and (b) shall install and operate CEMS, quality assure the data, and keep records and reports in accordance with the regulations issued under subsection (a). Upon commencement of commercial operation of each new utility unit, the unit shall comply with the requirements of subsection (a).

(d) **UNAVAILABILITY OF EMISSIONS DATA.**—If CEMS data or data from an alternative monitoring system approved by the Administrator under subsection (a) is not available for any affected unit during any period of a calendar year in which such data is required under this title, and the owner or operator cannot provide information, satisfactory to the Administrator, on emissions during that period, the Administrator shall deem the unit to be operating in an uncontrolled manner during the entire period for which the data was not available and shall, by regulation which shall be issued not later than eighteen months after enactment of the Clean Air Act Amendments of 1990, prescribe means to calculate emissions for that period. The owner or operator shall be liable for excess emissions fees and offsets under section 411 in accordance with such regulations. Any fee due and payable under this subsection shall not diminish the liability of the unit's owner or operator for any fine, penalty, fee or assessment against the unit for the same violation under any other section of this Act.

(e) **PROHIBITION.**—It shall be unlawful for the owner or operator of any source subject to this title to operate a source without complying with the requirements of this section, and any regulations implementing this section.

[¶ 2413]**Sec. 413. GENERAL COMPLIANCE WITH OTHER PROVISIONS.**

Except as expressly provided, compliance with the requirements of this title shall not exempt or exclude the owner or operator of any source subject to this title from compliance with any other applicable requirements of this Act.

[¶ 2414]**Sec. 414. ENFORCEMENT.**

It shall be unlawful for any person subject to this title to violate any prohibition of, requirement of, or regulation promulgated pursuant to this title shall be a violation of this Act. In addition to the other requirements and prohibitions provided for in this title, the operation of any affected unit to emit sulfur dioxide in excess of allowances, held for such unit shall be deemed a violation, with each ton emitted in excess of allowances held constituting a separate violation.

[¶ 2415]**Sec. 415. CLEAN COAL TECHNOLOGY REGULATORY INCENTIVES.**

(a) **DEFINITION.**—For purposes of this section, “clean coal technology” means any technology, including technologies applied at the precombustion, combustion, or postcombustion stage, at a new or existing facility which will achieve significant reductions in air emissions of sulfur dioxide or oxides of nitrogen associated with the utilization of coal in the generation of electricity, process steam, or industrial products, which is not in widespread use as of the date of enactment of this title.

(b) **REVISED REGULATIONS FOR CLEAN COAL TECHNOLOGY DEMONSTRATIONS.**—

(1) **APPLICABILITY.**—This subsection applies to physical or operational changes to existing facilities for the sole purpose of installation, operation, cessation, or removal of a temporary or permanent clean coal technology demonstration project. For the purposes of this section, a clean coal technology demonstration project shall mean a project using funds appropriated under the heading “Department of Energy-Clean Coal Technology”, up to a total amount of \$2,500,000,000 for commercial demonstration of clean coal technology, or similar projects funded through appropriations for the Environmental Protection Agency. The Federal contribution for a qualifying project shall be at least 20 percent of the total cost of the demonstration project.

(2) **TEMPORARY PROJECTS.**—Installation, operation, cessation, or removal of a temporary clean coal technology demonstration project that is operated for a period of five years or less, and which complies with the State implementation plans for the State in which the project is located and other requirements necessary to attain and maintain the national ambient air quality standards during and after the project is terminated, shall not subject such facility to the requirements of section 111 or part C or D of title I.

(3) **PERMANENT PROJECTS.**—For permanent clean coal technology demonstration, projects that constitute repowering as defined in section 402(l) of this title, any qualifying project shall not be subject to standards of performance under section 111 or to the review and permitting requirements of part C for any pollutant the potential emissions of which will not increase as a result of the demonstration project.

(4) **EPA REGULATIONS.**—Not later than 12 months after the date of enactment, the Administrator shall promulgate regulations or interpretive rulings to revise requirements under section 111 and parts C and D, as appropriate, to facilitate projects consistent in this subsection. With respect to parts C and D, such regulations or rulings shall apply to all areas in which EPA is the permitting authority. In those instances in which the State is the permitting authority under part C or D, any State may adopt and submit to the Administrator for approval revisions to its implementation plan to apply the regulations or rulings promulgated under this subsection.

(c) **EXEMPTION FOR REACTIVATION OF VERY CLEAN UNITS.**—Physical changes or changes in the method of operation associated with the commencement of commercial operations by a coal-fired utility unit after a period of discontinued operation shall not subject the unit to the requirements of section 111 or part C of the Act where the unit (1) has not been in operation for the two-year period prior to the enactment of the Clean Air Act Amendments of 1990, and the emissions from such unit continue to be carried in the permitting authority's emissions inventory at the time of enactment, (2) was equipped prior to shut-down with a continuous system of emissions control that achieves a removal efficiency for sulfur dioxide of no less than 85 percent and a removal efficiency for particulates of no less than 98 percent, (3) is equipped with low-NO_x burners prior to the time of commencement, and (4) is otherwise in compliance with the requirements of this Act.

[¶ 2416]

Sec. 416. CONTINGENCY GUARANTEE; AUCTIONS, RESERVE.

(a) **DEFINITIONS.**—For purposes of this section—

(1) The term “independent power producer” means any person who owns or operates, in whole or in part, one or more new independent power production facilities.

(2) The term “new independent power production facility” means a facility that—

(A) is used for the generation of electric energy, 80 percent or more of which is sold at wholesale;

(B) is nonrecourse project-financed (as such term is defined by the Secretary of Energy within 3 months of the date of the enactment of the Clean Air Act Amendments of 1990);

(C) does not generate electric energy sold to any affiliate (as defined in section 2(a)(11) of the Public Utility Holding Company

Act of 1935) of the facility's owner or operator unless the owner or operator of the facility demonstrates that it cannot obtain allowances from the affiliate; and

(D) is a new unit required to hold allowances under this title.

(3) The term "required allowances" means the allowances required to operate such unit for so much of the unit's useful life as occurs after January 1, 2000.

(b) **SPECIAL RESERVE OF ALLOWANCES.**—Within 36 months after the date of the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations establishing a Special Allowance Reserve containing allowances to be sold under this section. For purposes of establishing the Special Allowance Reserve, the Administrator shall withhold—

(1) 2.8 percent of the allocation of allowances for each year from 1995 through 1999 inclusive; and

(2) 2.8 percent of the basic Phase II allowance allocation of allowances for each year beginning in the year 2000

which would (but for this subsection) be issued for each affected unit at an affected source. The Administrator shall record such withholding for purposes of transferring the proceeds of the allowance sales under this subsection. The allowances so withheld shall be deposited in the Reserve under this section.

(c) **DIRECT SALE AT \$1,500 PER TON.**—

(1) **SUBACCOUNT FOR DIRECT SALES.**—In accordance with regulations under this section, the Administrator shall establish a Direct Sale Subaccount in the Special Allowance Reserve established under this section. The Direct Sale Subaccount shall contain allowances in the amount of 50,000 tons per year for each year beginning in the year 2000.

(2) **SALES.**—Allowances in the subaccount shall be offered for direct sale to any person at the times and in the amounts specified in table 1 at a price of \$1,500 per allowance, adjusted by the Consumer Price Index in the same manner as provided in paragraph (3). Requests to purchase allowances from the Direct Sale Subaccount established under paragraph (1) shall be approved in the order of receipt until no allowances remain in such subaccount, except that an opportunity to purchase such allowances shall be provided to the independent power producers referred to in this subsection before such allowances are offered to any other person. Each applicant shall be required to pay 50 percent of the total purchase price of the allowances within 6 months after the approval of the request to purchase. The remainder shall be paid on or before the transfer of the allowances.

TABLE 1.—NUMBER OF ALLOWANCES AVAILABLE FOR SALE AT \$1,500 PER TON

<i>Year of Sale</i>	<i>Spot Sale (same year)</i>	<i>Advance Sale</i>
1993-1999	...	25,000
2000 and after	25,000	25,000

Allowances sold in the spot sale in any year are allowances which may only be used in that year (unless banked for use in a later year.) Allowances sold in the advance sale in any year are allowances which may only be used in the 7th year after the year in which they are first offered for sale (unless banked for use in a later year.)

(3) **ENTITLEMENT TO WRITTEN GUARANTEE.**—Any independent power producer that submits an application to the Administrator establishing that such independent power producer—

(A) proposes to construct a new independent power production facility for which allowances are required under this title;

(B) will apply for financing to construct such facility after January 1, 1990, and before the date of the first auction under this section;

(C) has submitted to each owner or operator of an affected unit listed in table A (in section 404) a written offer to purchase the required allowances for \$750 per ton; and

(D) has not received (within 180 days after submitting offers to purchase under subparagraph (C)) an acceptance of the offer to purchase the required allowances

shall, within 30 days after submission of such application, be entitled to receive the Administrator's written guarantee (subject to the eligibility requirements set forth in paragraph (4)) that such required allowances will be made available for purchase from the Direct Sale Subaccount established under this subsection and at a guaranteed price. The guaranteed price at which such allowances shall be made available for purchase shall be \$1,500 per ton, adjusted by the percentage, if any, by which the Consumer Price Index (as determined under section 502(b)(3)(B)(v)) for the year in which the allowance is purchased exceeds the Consumer Price Index for the calendar year 1990.

(4) **ELIGIBILITY REQUIREMENTS.**—The guarantee issued by the Administrator under paragraph (3) shall be subject to a demonstration by the independent power producer, satisfactory to the Administrator, that—

(A) the independent power producer has—

(i) made good faith efforts to purchase the required allowances from the owners or operators of affected units to which allowances will be allocated, including efforts to purchase at annual auctions under this section, and from industrial sources that have elected to become affected units pursuant to section 410; and

(ii) such bids and efforts were unsuccessful in obtaining the required allowances; and

(B) the independent power producer will continue to make good faith efforts to purchase the required allowances from the owners or operators of affected units and from industrial sources.

(5) **ISSUANCE OF GUARANTEED ALLOWANCES FROM DIRECT SALE SUBACCOUNT UNDER THIS SECTION.**—From the allowances available in the Direct Sale Subaccount established under this subsection, upon payment of the guaranteed price, the Administrator shall issue to any person exercising the right to purchase allowances pursuant to a guarantee under this subsection the allowances covered by such guarantee. Persons to which guarantees under this subsection have been issued shall have the opportunity to purchase allowances pursuant to such guarantee from such subaccount before the allowances in such reserve are offered for sale to any other person.

(6) **PROCEEDS.**—Notwithstanding section 3302 of title 31 of the United States Code or any other provision of law, the Administrator shall require that the proceeds of any sale under this subsection be transferred, within 90 days after the sale, without charge, on a pro rata basis to the owners or operators of the affected units from whom the allowances were withheld under subsection (b) and that any unsold allowances be transferred to the Subaccount for Auction Sales established under subsection (d). No proceeds of any sale under this subsection shall be held by any officer or employee of the United States or treated for any purpose as revenue to the United States or to the Administrator.

(7) **TERMINATION OF SUBACCOUNT.**—If the Administrator determines that, during any period of 2 consecutive calendar years, less than 20 percent of the allowances available in the subaccount for direct sales established under this subsection have been purchased under this paragraph, the Administrator shall terminate the subaccount and transfer such allowances to the Auction Subaccount under subsection (d).

(d) **AUCTION SALES.**—

(1) **SUBACCOUNT FOR AUCTIONS.**—The Administrator shall establish an Auction Subaccount in the Special Reserve established under this section. The Auction Subaccount shall contain allowances to be sold at auction under this section in the amount of 150,000 tons per year for each year from 1995 through 1999, inclusive and 250,000 tons per year for each year beginning in the calendar year 2000.

(2) **ANNUAL AUCTIONS.**—Commencing in 1993 and in each year thereafter, the Administrator shall conduct auctions at which the allowances referred to in paragraph (1) shall be offered for sale in accordance with regulations promulgated by the Administrator, in consultation with the Secretary of the Treasury, within 12 months of enactment of the Clean Air Act Amendments of 1990. The allowances referred to in paragraph (1) shall be offered for sale at auction in the amounts specified in table 2. The auction shall be open to any person. A person wishing to bid for such allowances shall submit (by a date set by the Administrator) to the Administrator (on a sealed bid schedule provided by the Administrator) offers to purchase specified numbers of allowances at specified prices. Such regulations shall specify that the auctioned allowances shall be allocated and sold on the basis of bid price, starting with the highest-priced bid and continuing until all allowances for sale at such auction

have been allocated. The regulations shall not permit that a minimum price be set for the purchase of withheld allowances. Allowances purchased at the auction may be used for any purpose and at any time after the auction, subject to the provisions of this title.

TABLE 2—NUMBER OF ALLOWANCES AVAILABLE FOR AUCTION

<i>Year of Sale</i>	<i>Spot Auction (same Year)</i>	<i>Advance Auction</i>
1993.....	50,000*	100,000
1994.....	50,000*	100,000
1995.....	50,000*	100,000
1996.....	150,000	100,000
1997.....	150,000	100,000
1998.....	150,000	100,000
1999.....	150,000	100,000
2000 and after	100,000	100,000

Allowances sold in the spot sale in any year are allowances which may only be used in that year (unless banked for use in a later year), except as otherwise noted. Allowances sold in the advance auction in any year are allowances which may only be used in the 7th year after the year in which they are first offered for sale (unless banked for use in a later year.)

* Available for use only in 1995 (unless banked for use in a later year.)

(3) PROCEEDS.—(A) Notwithstanding section 3302 of title 31 of the United States Code or any other provision of law, within 90 days of receipt, the Administrator shall transfer the proceeds from the auction under this section, on a pro rata basis, to the owners or operators of the affected units at an affected source from whom allowances were withheld under subsection (b). No funds transferred from a purchaser to a seller of allowances under this paragraph shall be held by any officer or employee of the United States or treated for any purpose as revenue to the United States or the Administrator.

(B) At the end of each year, any allowances offered for sale but not sold at the auction shall be returned without charge, on a pro rata basis, to the owner or operator of the affected units from whose allocation the allowances were withheld.

(4) ADDITIONAL AUCTION PARTICIPANTS.—Any person holding allowances or to whom allowances are allocated by the Administrator may submit those allowances to the Administrator to be offered for sale at auction under this subsection. The proceeds of any such sale shall be transferred at the time of sale by the purchaser to the person submitting such allowances for sale. The holder of allowances offered for sale under this paragraph may specify a minimum sale price. Any person may purchase allowances offered for auction under this paragraph. Such allowances shall be allocated and sold to purchasers on the basis of bid price after the auction under paragraph (2) is complete. No funds transferred from a purchaser to a seller of allowances under this paragraph shall be held by any officer or employee of the United States or treated for any purpose as revenue to the United States or the Administrator.

(5) RECORDING BY EPA.—The Administrator shall record and publicly report the nature, prices and results of each auction under this subsection, including the prices of successful bids, and shall record the transfers of allowances as a result of each auction in accordance with the requirements of this section. The transfer of allowances at such auction shall be recorded in accordance with the regulations promulgated by the Administrator under this title.

(e) CHANGES IN SALES, AUCTIONS, AND WITHHOLDING.—Pursuant to rulemaking after public notice and comment the Administrator may at any time after the year 1998 (in the case of advance sales or advance auctions) and 2005 (in the case of spot sales or spot auctions) decrease the number of allowances withheld and sold under this section.

(f) TERMINATION OF AUCTIONS.—The Administrator may terminate the withholding of allowances and the auction sales under this section if the Administrator determines that, during any period of 3 consecutive calendar years after 2002, less than 20 percent of the allowances available in the auction subaccount have been purchased. Pursuant to regulations under this section, the Administrator may by delegation or contract provide for the conduct of sales or auctions under the Administrator's supervision by other departments or agencies of the United States Government or by nongovernmental agencies, groups, or organizations.

TITLE V—Permits**[¶ 2501]****Sec. 501. DEFINITIONS.**

As used in this title—

(1) **AFFECTED SOURCE.**—The term “affected source” shall have the meaning given such term in title IV.

(2) **MAJOR SOURCE.**—The term “major source” means any stationary source (or any group of stationary sources located within a contiguous area and under common control) that is either of the following:

(A) A major source as defined in section 112.

(B) A major stationary source as defined in section 302 or part D of title I.

(3) **SCHEDULE OF COMPLIANCE.**—The term “schedule of compliance” means a schedule of remedial measures, including an enforceable sequence of actions or operations, leading to compliance with an applicable implementation plan, emission standard, emission limitation, or emission prohibition.

(4) **PERMITTING AUTHORITY.**—The term “permitting authority” means the Administrator or the air pollution control agency authorized by the Administrator to carry out a permit program under this title.

[¶ 2502]**Sec. 502. PERMIT PROGRAMS**

(a) **VIOLATIONS.**—After the effective date of any permit program approved or promulgated under this title, it shall be unlawful for any person to violate any requirement of a permit issued under this title, or to operate an affected source (as provided in title IV), a major source, any other source (including an area source) subject to standards or regulations under section 111 or 112, any other source required to have a permit under parts C or D of title I, or any other stationary source in a category designated (in whole or in part) by regulations promulgated by the Administrator (after notice and public comment) which shall include a finding setting forth the basis for such designation, except in compliance with a permit issued by a permitting authority under this title. (Nothing in this subsection shall be construed to alter the applicable requirements of this Act that a permit be obtained before construction or modification.) The Administrator may, in the Administrator’s discretion and consistent with the applicable provisions of this Act, promulgate regulations to exempt one or more source categories (in whole or in part) from the requirements of this subsection if the Administrator finds that compliance with such requirements is impracticable, infeasible, or unnecessarily burdensome on such categories, except that the Administrator may not exempt any major source from such requirements.

¶ 2501 Sec. 501

(b) REGULATIONS.—The Administrator shall promulgate within 12 months after the date of the enactment of the Clean Air Act Amendments of 1990 regulations establishing the minimum elements of a permit program to be administered by any air pollution control agency. These elements shall include each of the following:

(1) Requirements for permit applications, including a standard application form and criteria for determining in a timely fashion the completeness of applications.

(2) Monitoring and reporting requirements.

(3)(A) A requirement under State or local law or interstate compact that the owner or operator of all sources subject to the requirement to obtain a permit under this title pay an annual fee, or the equivalent over some other period, sufficient to cover all reasonable (direct and indirect) costs required to develop and administer the permit program requirements of this title, including section 507, including the reasonable costs of—

(i) reviewing and acting upon any application for such a permit,

(ii) if the owner or operator receives a permit for such source, whether before or after the date of the enactment of the Clean Air Act Amendments of 1990, implementing and enforcing the terms and conditions of any such permit (not including any court costs or other costs associated with any enforcement action),

(iii) emissions and ambient monitoring,

(iv) preparing generally applicable regulations, or guidance,

(v) modeling, analyses, and demonstrations, and

(vi) preparing inventories and tracking emissions.

(B) The total amount of fees collected by the permitting authority shall conform to the following requirements:

(i) The Administrator shall not approve a program as meeting the requirements of this paragraph unless the State demonstrates that, except as otherwise provided in subparagraphs (ii) through (v) of this subparagraph, the program will result in the collection, in the aggregate, from all sources subject to subparagraph (A), of an amount not less than \$25 per ton of each regulated pollutant, or such other amount as the Administrator may determine adequately reflects the reasonable costs of the permit program.

(ii) As used in this subparagraph, the term “regulated pollutant” shall mean (I) a volatile organic compound; (II) each pollutant regulated under section 111 or 112; and (III) each pollutant for which a national primary ambient air quality

standard has been promulgated (except that carbon monoxide shall be excluded from this reference).

(iii) In determining the amount under clause (i), the permitting authority is not required to include any amount of regulated pollutant emitted by any source in excess of 4,000 tons per year of that regulated pollutant.

(iv) The requirements of clause (i) shall not apply if the permitting authority demonstrates that collecting an amount less than the amount specified under clause (i) will meet the requirements of subparagraph (A).

(v) The fee calculated under clause (i) shall be increased (consistent with the need to cover the reasonable costs authorized by subparagraph (A)) in each year beginning after the year of the enactment of the Clean Air Act Amendments of 1990 by the percentage, if any, by which the Consumer Price Index for the most recent calendar year ending before the beginning of such year exceeds the Consumer Price Index for the calendar year 1989. For purposes of this clause—

(I) the Consumer Price Index for any calendar year is the average of the Consumer Price Index for all-urban consumers published by the Department of Labor, as of the close of the 12-month period ending on August 31 of each calendar year, and

(II) the revision of the Consumer Price Index which is most consistent with the Consumer Price Index for calendar year 1989 shall be used.

(C)(i) If the Administrator determines, under subsection (d), that the fee provisions of the operating permit program do not meet the requirements of this paragraph, or if the Administrator makes a determination, under subsection (i), that the permitting authority is not adequately administering or enforcing an approved fee program, the Administrator may, in addition to taking any other action authorized under this title, collect reasonable fees from the sources identified under subparagraph (A). Such fees shall be designed solely to cover the Administrator's costs of administering the provisions of the permit program promulgated by the Administrator.

(ii) Any source that fails to pay fees lawfully imposed by the Administrator under this subparagraph shall pay a penalty of 50 percent of the fee amount, plus interest on the fee amount computed in accordance with section 6621(a)(2) of the Internal Revenue Code of 1986 (relating to computation of interest on underpayment of Federal taxes).

(iii) Any fees, penalties, and interest collected under this subparagraph shall be deposited in a special fund in the United States Treasury for licensing and other services, which thereaf-

ter shall be available for appropriation, to remain available until expended, subject to appropriation, to carry out the Agency's activities for which the fees were collected. Any fee required to be collected by a State, local, or interstate agency under this subsection shall be utilized solely to cover all reasonable (direct and indirect) costs required to support the permit program as set forth in subparagraph (A).

(4) Requirements for adequate personnel and funding to administer the program.

(5) A requirement that the permitting authority have adequate authority to:

(A) issue permits and assure compliance by all sources required to have a permit under this title with each applicable standard, regulation or requirement under this Act;

(B) issue permits for a fixed term, not to exceed 5 years;

(C) assure that upon issuance or renewal permits incorporate emission limitations and other requirements in an applicable implementation plan;

(D) terminate, modify, or revoke and reissue permits for cause;

(E) enforce permits, permit fee requirements, and the requirement to obtain a permit, including authority to recover civil penalties in a maximum amount of not less than \$10,000 per day for each violation, and provide appropriate criminal penalties; and

(F) assure that no permit will be issued if the Administrator objects to its issuance in a timely manner under this title.

(6) Adequate, streamlined, and reasonable procedures for expeditiously determining when applications are complete, for processing such applications, for public notice, including offering an opportunity for public comment and a hearing, and for expeditious review of permit actions, including applications, renewals, or revisions, and including an opportunity for judicial review in State court of the final permit action by the applicant, any person who participated in the public comment process, and any other person who could obtain judicial review of that action under applicable law.

(7) To ensure against unreasonable delay by the permitting authority, adequate authority and procedures to provide that a failure of such permitting authority to act on a permit application or permit renewal application (in accordance with the time periods specified in section 503 or, as appropriate, title IV) shall be treated as a final permit action solely for purposes of obtaining judicial review in State court of an action brought by any person referred to in paragraph (6) to require that action be taken by the permitting authority on such application without additional delay.

(8) Authority, and reasonable procedures consistent with the need for expeditious action by the permitting authority on permit applications and related matters, to make available to the public any permit application, compliance plan, permit, and monitoring or compliance report under section 503(e), subject to the provisions of section 114(c) of this Act.

(9) A requirement that the permitting authority, in the case of permits with a term of 3 or more years for major sources, shall require revisions to the permit to incorporate applicable standards and regulations promulgated under this Act after the issuance of such permit. Such revisions shall occur as expeditiously as practicable and consistent with the procedures established under paragraph (6) but not later than 18 months after the promulgation of such standards and regulations. No such revision shall be required if the effective date of the standards or regulations is a date after the expiration of the permit term. Such permit revision shall be treated as a permit renewal if it complies with the requirements of this title regarding renewals.

(10) Provisions to allow changes within a permitted facility (or one operating pursuant to section 503(d)) without requiring a permit revision, if the changes are not modifications under any provision of title I and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions): *Provided*, That the facility provides the Administrator and the permitting authority with written notification in advance of the proposed changes which shall be a minimum of 7 days, unless the permitting authority provides in its regulations a different timeframe for emergencies.

(c) SINGLE PERMIT.—A single permit may be issued for a facility with multiple sources.

(d) SUBMISSION AND APPROVAL.—(1) Not later than 3 years after the date of the enactment of the Clean Air Act Amendments of 1990, the Governor of each State shall develop and submit to the Administrator a permit program under State or local law or under an interstate compact meeting the requirements of this title. In addition, the Governor shall submit a legal opinion from the attorney general (or the attorney for those State air pollution control agencies that have independent legal counsel), or from the chief legal officer of an interstate agency, that the laws of the State, locality, or the interstate compact provide adequate authority to carry out the program. Not later than 1 year after receiving a program, and after notice and opportunity for public comment, the Administrator shall approve or disapprove such program, in whole or in part. The Administrator may approve a program to the extent that the program meets the requirements of this Act, including the regulations issued under subsection (b). If the program is disapproved, in whole or in part, the Administrator shall notify the Governor of any revisions or modifications necessary to obtain approval. The Governor shall revise and resubmit the program for review under this section within 180 days after receiving notification.

(2)(A) If the Governor does not submit a program as required under paragraph (1) or if the Administrator disapproves a program submitted by the Governor under paragraph (1), in whole or in part, the Administrator may, prior to the expiration of the 18-month period referred to in subparagraph (B), in the Administrator's discretion, apply any of the sanctions specified in section 179(b).

(B) If the Governor does not submit a program as required under paragraph (1), or if the Administrator disapproves any such program submitted by the Governor under paragraph (1), in whole or in part, 18 months after the date required for such submittal or the date of such disapproval, as the case may be, the Administrator shall apply sanctions under section 179(b) in the same manner and subject to the same deadlines and other conditions as are applicable in the case of a determination, disapproval, or finding under section 179(a).

(C) The sanctions under section 179(b)(2) shall not apply pursuant to this paragraph in any area unless the failure to submit or the disapproval referred to in subparagraph (A) or (B) relates to an air pollutant for which such area has been designated a nonattainment area (as defined in part D of title I).

(3) If a program meeting the requirements of this title has not been approved in whole for any State, the Administrator shall, 2 years after the date required for submission of such a program under paragraph (1), promulgate, administer, and enforce a program under this title for that State.

(e) **SUSPENSION.**—The Administrator shall suspend the issuance of permits promptly upon publication of notice of approval of a permit program under this section, but may, in such notice, retain jurisdiction over permits that have been federally issued, but for which the administrative or judicial review process is not complete. The Administrator shall continue to administer and enforce federally issued permits under this title until they are replaced by a permit issued by a permitting program. Nothing in this subsection should be construed to limit the Administrator's ability to enforce permits issued by a State.

(f) **PROHIBITION.**—No partial permit program shall be approved unless, at a minimum, it applies, and ensures compliance with, this title and each of the following:

(1) All requirements established under title IV applicable to "affected sources".

(2) All requirements established under section 112 applicable to "major sources", "area sources", and "new sources".

(3) All requirements of title I (other than section 112) applicable to sources required to have a permit under this title.

Approval of a partial program shall not relieve the State of its obligation to submit a complete program, nor from the application of any sanctions under this Act for failure to submit an approvable permit program.

(g) **INTERIM APPROVAL.**—If a program (including a partial permit program) submitted under this title substantially meets the requirements of this title, but is not fully approvable, the Administrator may by rule grant the program interim approval. In the notice of final rulemaking, the Administrator shall specify the changes that must be made before the program can receive full approval. An interim approval under this subsection shall expire on a date set by the Administrator not later than 2 years after such approval, and may not be renewed. For the period of any such interim approval, the provisions of subsection (d)(2), and the obligation of the Administrator to promulgate a program under this title for the State pursuant to subsection (d)(3), shall be suspended. Such provisions and such obligation of the Administrator shall apply after the expiration of such interim approval.

(h) **EFFECTIVE DATE.**—The effective date of a permit program, or partial or interim program, approved under this title, shall be the effective date of approval by the Administrator. The effective date of a permit program, or partial permit program, promulgated by the Administrator shall be the date of promulgation.

(i) **ADMINISTRATION AND ENFORCEMENT.**—(1) Whenever the Administrator makes a determination that a permitting authority is not adequately administering and enforcing a program, or portion thereof, in accordance with the requirements of this title, the Administrator shall provide notice to the State and may, prior to the expiration of the 18-month period referred to in paragraph (2), in the Administrator's discretion, apply any of the sanctions specified in section 179(b).

(2) Whenever the Administrator makes a determination that a permitting authority is not adequately administering and enforcing a program, or portion thereof, in accordance with the requirements of this title, 18 months after the date of the notice under paragraph (1), the Administrator shall apply the sanctions under section 179(b) in the same manner and subject to the same deadlines and other conditions as are applicable in the case of a determination, disapproval, or finding under section 179(a).

(3) The sanctions under section 179(b)(2) shall not apply pursuant to this subsection in any area unless the failure to adequately enforce and administer the program relates to an air pollutant for which such area has been designated a nonattainment area.

(4) Whenever the Administrator has made a finding under paragraph (1) with respect to any State, unless the State has corrected such deficiency within 18 months after the date of such finding, the Administrator shall, 2 years after the date of such finding, promulgate, administer, and enforce a program under this title for that State. Nothing in this paragraph shall be construed to affect the validity of a program which has been approved under this title or the authority of any permitting

authority acting under such program until such time as such program is promulgated by the Administrator under this paragraph.

[¶ 2503]

Sec. 503. PERMIT APPLICATIONS.

(a) **APPLICABLE DATE.**—Any source specified in section 502(a) shall become subject to a permit program, and required to have a permit, on the later of the following dates—

(1) the effective date of a permit program or partial or interim permit program applicable to the source; or

(2) the date such source becomes subject to section 502(a).

(b) **COMPLIANCE PLAN.**—(1) The regulations required by section 502(b) shall include a requirement that the applicant submit with the permit application a compliance plan describing how the source will comply with all applicable requirements under this Act. The compliance plan shall include a schedule of compliance, and a schedule under which the permittee will submit progress reports to the permitting authority no less frequently than every 6 months.

(2) The regulations shall further require the permittee to periodically (but no less frequently than annually) certify that the facility is in compliance with any applicable requirements of the permit, and to promptly report any deviations from permit requirements to the permitting authority.

(c) **DEADLINE.**—Any person required to have a permit shall, not later than 12 months after the date on which the source becomes subject to a permit program approved or promulgated under this title, or such earlier date as the permitting authority may establish, submit to the permitting authority a compliance plan and an application for a permit signed by a responsible official, who shall certify the accuracy of the information submitted. The permitting authority shall approve or disapprove a completed application (consistent with the procedures established under this title for consideration of such applications), and shall issue or deny the permit, within 18 months after the date of receipt thereof, except that the permitting authority shall establish a phased schedule for acting on permit applications submitted within the first full year after the effective date of a permit program (or a partial or interim program). Any such schedule shall assure that at least one-third of such permits will be acted on by such authority annually over a period of not to exceed 3 years after such effective date. Such authority shall establish reasonable procedures to prioritize such approval or disapproval actions in the case of applications for construction or modification under the applicable requirements of this Act.

(d) **TIMELY AND COMPLETE APPLICATIONS.**—Except for sources required to have a permit before construction or modification under the applicable requirements of this Act, if an applicant has submitted a timely and complete application for a permit required by this title (including renewals), but final action has not been taken on such application, the source's failure to have a permit shall not be a violation of this Act, unless the delay in final action was

due to the failure of the applicant timely to submit information required or requested to process the application. No source required to have a permit under this title shall be in violation of section 502(a) before the date on which the source is required to submit an application under subsection (c).

(e) COPIES; AVAILABILITY.—A copy of each permit application, compliance plan (including the schedule of compliance), emissions or compliance monitoring report, certification, and each permit issued under this title, shall be available to the public. If an applicant or permittee is required to submit information entitled to protection from disclosure under section 114(c) of this Act, the applicant or permittee may submit such information separately. The requirements of section 114(c) shall apply to such information. The contents of a permit shall not be entitled to protection under section 114(c).

¶ 2504]

Sec. 504. PERMIT REQUIREMENTS AND CONDITIONS.

(a) CONDITIONS.—Each permit issued under this title shall include enforceable emission limitations and standards, a schedule of compliance, a requirement that the permittee submit to the permitting authority, no less often than every 6 months, the results of any required monitoring, and such other conditions as are necessary to assure compliance with applicable requirements of this Act, including the requirements of the applicable implementation plan.

(b) MONITORING AND ANALYSIS.—The Administrator may by rule prescribe procedures and methods for determining compliance and for monitoring and analysis of pollutants regulated under this Act, but continuous emissions monitoring need not be required if alternative methods are available that provide sufficiently reliable and timely information for determining compliance. Nothing in this subsection shall be construed to affect any continuous emissions monitoring requirement of title IV, or where required elsewhere in this Act.

(c) INSPECTION, ENTRY, MONITORING, CERTIFICATION, AND REPORTING.—Each permit issued under this title shall set forth inspection, entry, monitoring, compliance certification, and reporting requirements to assure compliance with the permit terms and conditions. Such monitoring and reporting requirements shall conform to any applicable regulation under subsection (b). Any report required to be submitted by a permit issued to a corporation under this title shall be signed by a responsible corporate official, who shall certify its accuracy.

(d) GENERAL PERMITS.—The permitting authority may, after notice and opportunity for public hearing, issue a general permit covering numerous similar sources. Any general permit shall comply with all requirements applicable to permits under this title. No source covered by a general permit shall thereby be relieved from the obligation to file an application under section 503.

(e) TEMPORARY SOURCES.—The permitting authority may issue a single permit authorizing emissions from similar operations at multiple temporary

locations. No such permit shall be issued unless it includes conditions that will assure compliance with all the requirements of this Act at all authorized locations, including, but not limited to, ambient standards and compliance with any applicable increment or visibility requirements under part C of title I. Any such permit shall in addition require the owner or operator to notify the permitting authority in advance of each change in location. The permitting authority may require a separate permit fee for operations at each location.

(f) **PERMIT SHIELD.**—Compliance with a permit issued in accordance with this title shall be deemed compliance with section 502. Except as otherwise provided by the Administrator by rule, the permit may also provide that compliance with the permit shall be deemed compliance with other applicable provisions of this Act that relate to the permittee if—

(1) the permit includes the applicable requirements of such provisions, or

(2) the permitting authority in acting on the permit application makes a determination relating to the permittee that such other provisions (which shall be referred to in such determination) are not applicable and the permit includes the determination or a concise summary thereof.

Nothing in the preceding sentence shall alter or affect the provisions of section 303, including the authority of the Administrator under that section.

[¶ 2505]

Sec. 505. NOTIFICATION TO ADMINISTRATOR AND CONTIGUOUS STATES.

(a) **TRANSMISSION AND NOTICE.**—(1) Each permitting authority—

(A) shall transmit to the Administrator a copy of each permit application (and any application for a permit modification or renewal) or such portion thereof, including any compliance plan, as the Administrator may require to effectively review the application and otherwise to carry out the Administrator's responsibilities under this Act, and

(B) shall provide to the Administrator a copy of each permit proposed to be issued and issued as a final permit.

(2) The permitting authority shall notify all States—

(A) whose air quality may be affected and that are contiguous to the State in which the emission originates, or

(B) that are within 50 miles of the source, of each permit application or proposed permit forwarded to the Administrator under this section, and shall provide an opportunity for such States to submit written recommendations respecting the issuance of the permit and its terms and conditions. If any part of those recommendations are not accepted by the permitting authority, such authority shall notify the State submitting the recommendations and the Administrator in writing of its failure to accept those recommendations and the reasons therefor.

(b) **OBJECTION BY EPA.**—(1) If any permit contains provisions that are determined by the Administrator as not in compliance with the applicable requirements of this Act, including the requirements of an applicable implementation plan, the Administrator shall, in accordance with this subsection, object to its issuance. The permitting authority shall respond in writing if the Administrator (A) within 45 days after receiving a copy of the proposed permit under subsection (a)(1), or (B) within 45 days after receiving notification under subsection (a)(2), objects in writing to its issuance as not in compliance with such requirements. With the objection, the Administrator shall provide a statement of the reasons for the objection. A copy of the objection and statement shall be provided to the applicant.

(2) If the Administrator does not object in writing to the issuance of a permit pursuant to paragraph (1), any person may petition the Administrator within 60 days after the expiration of the 45-day review period specified in paragraph (1) to take such action. A copy of such petition shall be provided to the permitting authority and the applicant by the petitioner. The petition shall be based only on objections to the permit that were raised with reasonable specificity during the public comment period provided by the permitting agency (unless the petitioner demonstrates in the petition to the Administrator that it was impracticable to raise such objections within such period or unless the grounds for such objection arose after such period). The petition shall identify all such objections. If the permit has been issued by the permitting agency, such petition shall not postpone the effectiveness of the permit. The Administrator shall grant or deny such petition within 60 days after the petition is filed. The Administrator shall issue an objection within such period if the petitioner demonstrates to the Administrator that the permit is not in compliance with the requirements of this Act, including the requirements of the applicable implementation plan. Any denial of such petition shall be subject to judicial review under section 307. The Administrator shall include in regulations under this title provisions to implement this paragraph. The Administrator may not delegate the requirements of this paragraph.

(3) Upon receipt of an objection by the Administrator under this subsection, the permitting authority may not issue the permit unless it is revised and issued in accordance with subsection (c). If the permitting authority has issued a permit prior to receipt of an objection by the Administrator under paragraph (2) of this subsection, the Administrator shall modify, terminate, or revoke such permit and the permitting authority may thereafter only issue a revised permit in accordance with subsection (c).

(c) **ISSUANCE OR DENIAL.**—If the permitting authority fails, within 90 days after the date of an objection under subsection (b), to submit a permit revised to meet the objection, the Administrator shall issue or deny the permit in accordance with the requirements of this title. No objection shall be subject to judicial review until the Administrator takes final action to issue or deny a permit under this subsection.

(d) **WAIVER OF NOTIFICATION REQUIREMENTS.**—(1) The Administrator may waive the requirements of subsections (a) and (b) at the time of approval of a permit program under this title for any category (including any class, type, or size within such category) of sources covered by the program other than major sources.

(2) The Administrator may, by regulation, establish categories of source (including any class, type, or size within such category) to which the requirements of subsections (a) and (b) shall not apply. The preceding sentence shall not apply to major sources.

(3) The Administrator may exclude from any waiver under this subsection notification under subsection (a)(2). Any waiver granted under this subsection may be revoked or modified by the Administrator by rule.

(e) **REFUSAL OF PERMITTING AUTHORITY TO TERMINATE, MODIFY, OR REVOKE AND REISSUE.**—If the Administrator finds that cause exists to terminate, modify, or revoke and reissue a permit under this title, the Administrator shall notify the permitting authority and the source of the Administrator's finding. The permitting authority shall, within 90 days after receipt of such notification, forward to the Administrator under this section a proposed determination of termination, modification, or revocation and reissuance, as appropriate. The Administrator may extend such 90 day period for an additional 90 days if the Administrator finds that a new or revised permit application is necessary, or that the permitting authority must require the permittee to submit additional information. The Administrator may review such proposed determination under the provisions of subsections (a) and (b). If the permitting authority fails to submit the required proposed determination, or if the Administrator objects and the permitting authority fails to resolve the objection within 90 days, the Administrator may, after notice and in accordance with fair and reasonable procedures, terminate, modify, or revoke and reissue the permit.

[¶ 2506]

Sec. 506. OTHER AUTHORITIES.

(a) **IN GENERAL.**—Nothing in this title shall prevent a State, or interstate permitting authority, from establishing additional permitting requirements not inconsistent with this Act.

(b) **PERMITS IMPLEMENTING ACID RAIN PROVISIONS.**—The provisions of this title, including provisions regarding schedules for submission and approval or disapproval of permit applications, shall apply to permits implementing the requirements of title IV except as modified by that title.

[¶ 2507]

Sec. 507. SMALL BUSINESS STATIONARY SOURCE TECHNICAL AND ENVIRONMENTAL COMPLIANCE ASSISTANCE PROGRAM.

(a) **PLAN REVISIONS.**—Consistent with sections 110 and 112, each State shall, after reasonable notice and public hearings, adopt and submit to the Administrator as part of the State implementation plan for such State or as a

revision to such State implementation plan under section 110, plans for establishing a small business stationary source technical and environmental compliance assistance program. Such submission shall be made within 24 months after the date of the enactment of the Clean Air Act Amendments of 1990. The Administrator shall approve such program if it includes each of the following:

(1) Adequate mechanisms for developing, collecting, and coordinating information concerning compliance methods and technologies for small business stationary sources, and programs to encourage lawful cooperation among such sources and other persons to further compliance with this Act.

(2) Adequate mechanisms for assisting small business stationary sources with pollution prevention and accidental release detection and prevention, including providing information concerning alternative technologies, process changes, products, and methods of operation that help reduce air pollution.

(3) A designated State office within the relevant State agency to serve as ombudsman for small business stationary sources in connection with the implementation of this Act.

(4) A compliance assistance program for small business stationary sources which assists small business stationary sources in determining applicable requirements and in receiving permits under this Act in a timely and efficient manner.

(5) Adequate mechanisms to assure that small business stationary sources receive notice of their rights under this Act in such manner and form as to assure reasonably adequate time for such sources to evaluate compliance methods and any relevant or applicable proposed or final regulation or standard issued under this Act.

(6) Adequate mechanisms for informing small business stationary sources of their obligations under this Act, including mechanisms for referring such sources to qualified auditors or, at the option of the State, for providing audits of the operations of such sources to determine compliance with this Act.

(7) Procedures for consideration of requests from a small business stationary source for modification of—

(A) any work practice or technological method of compliance, or

(B) the schedule of milestones for implementing such work practice or method of compliance preceding any applicable compliance date,

based on the technological and financial capability of any such small business stationary source. No such modification may be granted unless it is in compliance with the applicable requirements of this Act, including the requirements of the applicable implementation plan. Where such applicable requirements are set forth in Federal regulations, only modifications authorized in such regulations may be allowed.

(b) **PROGRAM.**—The Administrator shall establish within 9 months after the date of the enactment of the Clean Air Act Amendments of 1990 a small business stationary source technical and environmental compliance assistance program. Such program shall—

(1) assist the States in the development of the program required under subsection (a) (relating to assistance for small business stationary sources);

(2) issue guidance for the use of the States in the implementation of these programs that includes alternative control technologies and pollution prevention methods applicable to small business stationary sources; and

(3) provide for implementation of the program provisions required under subsection (a)(4) in any State that fails to submit such a program under that subsection.

(c) **ELIGIBILITY.**—(1) Except as provided in paragraphs (2) and (3), for purposes of this section, the term “small business stationary source” means a stationary source that—

(A) is owned or operated by a person that employs 100 or fewer individuals;

(B) is a small business concern as defined in the Small Business Act;

(C) is not a major stationary source;

(D) does not emit 50 tons or more per year of any regulated pollutant; and

(E) emits less than 75 tons per year of all regulated pollutants.

(2) Upon petition by a source, the State may, after notice and opportunity for public comment, include as a small business stationary source for purposes of this section any stationary source which does not meet the criteria of subparagraphs (C), (D), or (E) of paragraph (1) but which does not emit more than 100 tons per year of all regulated pollutants.

(3)(A) The Administrator, in consultation with the Administrator of the Small Business Administration and after providing notice and opportunity for public comment, may exclude from the small business stationary source definition under this section any category or subcategory of sources that the Administrator determines to have sufficient technical and financial capabilities to meet the requirements of this Act without the application of this subsection.

(B) The State, in consultation with the Administrator and the Administrator of the Small Business Administration and after providing notice and opportunity for public hearing, may exclude from the small business stationary source definition under this section any

category or subcategory of sources that the State determines to have sufficient technical and financial capabilities to meet the requirements of this Act without the application of this subsection.

(d) **MONITORING.**—The Administrator shall direct the Agency's Office of Small and Disadvantaged Business Utilization through the Small Business Ombudsman (hereinafter in this section referred to as the "Ombudsman") to monitor the small business stationary source technical and environmental compliance assistance program under this section. In carrying out such monitoring activities, the Ombudsman shall—

(1) render advisory opinions on the overall effectiveness of the Small Business Stationary Source Technical and Environmental Compliance Assistance Program, difficulties encountered, and degree and severity of enforcement;

(2) make periodic reports to the Congress on the compliance of the Small Business Stationary Source Technical and Environmental Compliance Assistance Program with the requirements of the Paperwork Reduction Act, the Regulatory Flexibility Act, and the Equal Access to Justice Act;

(3) review information to be issued by the Small Business Stationary Source Technical and Environmental Compliance Assistance Program for small business stationary sources to ensure that the information is understandable by the layperson; and

(4) have the Small Business Stationary Source Technical and Environmental Compliance Assistance Program serve as the secretariat for the development and dissemination of such reports and advisory opinions.

(e) **COMPLIANCE ADVISORY PANEL.**—(1) There shall be created a Compliance Advisory Panel (hereinafter referred to as the "Panel") on the State level of not less than 7 individuals. This Panel shall—

(A) render advisory opinions concerning the effectiveness of the small business stationary source technical and environmental compliance assistance program, difficulties encountered, and degree and severity of enforcement;

(B) make periodic reports to the Administrator concerning the compliance of the State Small Business Stationary Source Technical and Environmental Compliance Assistance Program with the requirements of the Paperwork Reduction Act, the Regulatory Flexibility Act, and the Equal Access to Justice Act;

(C) review information for small business stationary sources to assure such information is understandable by the layperson; and

(D) have the Small Business Stationary Source Technical and Environmental Compliance Assistance Program serve as the secretariat for the development and dissemination of such reports and advisory opinions.

(2) The Panel shall consist of—

(A) 2 members, who are not owners, or representatives of owners, of small business stationary sources, selected by the Governor to represent the general public;

(B) 2 members selected by the State legislature who are owners, or who represent owners, of small business stationary sources (1 member each by the majority and minority leadership of the lower house, or in the case of a unicameral State legislature, 2 members each shall be selected by the majority leadership and the minority leadership, respectively, of such legislature, and subparagraph (C) shall not apply);

(C) 2 members selected by the State legislature who are owners, or who represent owners, of small business stationary sources (1 member each by the majority and minority leadership of the upper house, or the equivalent State entity); and

(D) 1 member selected by the head of the department or agency of the State responsible for air pollution permit programs to represent that agency.

(f) FEES.—The State (or the Administrator) may reduce any fee required under this Act to take into account the financial resources of small business stationary sources.

(g) CONTINUOUS EMISSION MONITORS.—In developing regulations and CTGs under this Act that contain continuous emission monitoring requirements, the Administrator, consistent with the requirements of this Act, before applying such requirements to small business stationary sources, shall consider the necessity and appropriateness of such requirements for such sources. Nothing in this subsection shall affect the applicability of title IV provisions relating to continuous emissions monitoring.

(h) CONTROL TECHNIQUE GUIDELINES.—The Administrator shall consider, consistent with the requirements of this Act, the size, type, and technical capabilities of small business stationary sources (and sources which are eligible under subsection (c)(2) to be treated as small business stationary sources) in developing CTGs applicable to such sources under this Act.

TITLE VI—Stratospheric Ozone Protection**[¶ 2601]****Sec. 601. DEFINITIONS.**

As used in this title—

(1) **APPLIANCE.**—The term “appliance” means any device which contains and uses a class I or class II substance as a refrigerant and which is used for household or commercial purposes, including any air conditioner, refrigerator, chiller, or freezer.

(2) **BASELINE YEAR.**—The term “baseline year” means—

(A) the calendar year 1986, in the case of any class I substance listed in Group I or II under section 602(a),

(B) the calendar year 1989, in the case of any class I substance listed in Group III, IV, or V under section 602(a), and

(C) a representative calendar year selected by the Administrator, in the case of—

(i) any substance added to the list of class I substances after the publication of the initial list under section 602(a), and

(ii) any class II substance.

(3) **CLASS I SUBSTANCE.**—The term “class I substance” means each of the substances listed as provided in section 602(a).

(4) **CLASS II SUBSTANCE.**—The term “class II substance” means each of the substances listed as provided in section 602(b).

(5) **COMMISSIONER.**—The term “Commissioner” means the Commissioner of the Food and Drug Administration.

(6) **CONSUMPTION.**—The term “consumption” means, with respect to any substance, the amount of that substance produced in the United States, plus the amount imported, minus the amount exported to Parties to the Montreal Protocol. Such term shall be construed in a manner consistent with the Montreal Protocol.

(7) **IMPORT.**—The term “import” means to land on, bring into, or introduce into, or attempt to land on, bring into, or introduce into, any place subject to the jurisdiction of the United States, whether or not such landing, bringing, or introduction constitutes an importation within the meaning of the customs laws of the United States.

(8) **MEDICAL DEVICE.**—The term “medical device” means any device (as defined in the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 321)), diagnostic product, drug (as defined in the Federal Food, Drug, and Cosmetic Act), and drug delivery system—

(A) if such device, product, drug, or drug delivery system utilizes a class I or class II substance for which no safe and effective

alternative has been developed, and where necessary, approved by the Commissioner; and

(B) if such device, product, drug, or drug delivery system, has, after notice and opportunity for public comment, been approved and determined to be essential by the Commissioner in consultation with the Administrator.

(9) **MONTREAL PROTOCOL.**—The terms “Montreal Protocol” and “the Protocol” mean the Montreal Protocol on Substances that Deplete the Ozone Layer, a protocol to the Vienna Convention for the Protection of the Ozone Layer, including adjustments adopted by Parties thereto and amendments that have entered into force.

(10) **OZONE-DEPLETION POTENTIAL.**—The term “ozone-depletion potential” means a factor established by the Administrator to reflect the ozone-depletion potential of a substance, on a mass per kilogram basis, as compared to chlorofluorocarbon-11 (CFC-11). Such factor shall be based upon the substance’s atmospheric lifetime, the molecular weight of bromine and chlorine, and the substance’s ability to be photolytically disassociated, and upon other factors determined to be an accurate measure of relative ozone-depletion potential.

(11) **PRODUCE, PRODUCED, AND PRODUCTION.**—The terms “produce”, “produced” and “production”, refer to the manufacture of a substance from any raw material or feedstock chemical, but such terms do not include—

(A) the manufacture of a substance that is used and entirely consumed (except for trace quantities) in the manufacture of other chemicals, or

(B) the reuse or recycling of a substance.

[¶ 2602]

Sec. 602. LISTING OF CLASS I AND CLASS II SUBSTANCES.

(a) **LIST OF CLASS I SUBSTANCES.**— Within 60 days after enactment of the Clean Air Act Amendments of 1990, the Administrator shall publish an initial list of class I substances, which list shall contain the following substances:

Group I:

- chlorofluorocarbon-11 (CFC-11)
- chlorofluorocarbon-12 (CFC-12)
- chlorofluorocarbon-113 (CFC-113)
- chlorofluorocarbon-114 (CFC-114)
- chlorofluorocarbon-115 (CFC-115)

Group II:

- halon-1211
- halon-1301
- halon-2402

Group III:

chlorofluorocarbon-13 (CFC-13)
 chlorofluorocarbon-111 (CFC-111)
 chlorofluorocarbon-112 (CFC-112)
 chlorofluorocarbon-211 (CFC-211)
 chlorofluorocarbon-212 (CFC-212)
 chlorofluorocarbon-213 (CFC-213)
 chlorofluorocarbon-214 (CFC-214)
 chlorofluorocarbon-215 (CFC-215)
 chlorofluorocarbon-216 (CFC-216)
 chlorofluorocarbon-217 (CFC-217)

Group IV: carbon tetrachloride

Group V: methyl chloroform

The initial list under this subsection shall also include the isomers of the substances listed above, other than 1,1,2-trichloroethane (an isomer of methyl chloroform). Pursuant to subsection (c), the Administrator shall add to the list of class I substances any other substance that the Administrator finds causes or contributes significantly to harmful effects on the stratospheric ozone layer. The Administrator shall, pursuant to subsection (c), add to such list all substances that the Administrator determines have an ozone depletion potential of 0.2 or greater.

(b) LIST OF CLASS II SUBSTANCES.—Simultaneously with publication of the initial list of class I substances, the Administrator shall publish an initial list of class II substances, which shall contain the following substances:

hydrochlorofluorocarbon-21 (HCFC-21)	hydrochlorofluorocarbon-226 (HCFC-226)
hydrochlorofluorocarbon-22 (HCFC-22)	hydrochlorofluorocarbon-231 (HCFC-231)
hydrochlorofluorocarbon-31 (HCFC-31)	hydrochlorofluorocarbon-232 (HCFC-232)
hydrochlorofluorocarbon-121 (HCFC-121)	hydrochlorofluorocarbon-233 (HCFC-233)
hydrochlorofluorocarbon-122 (HCFC-122)	hydrochlorofluorocarbon-234 (HCFC 234)
hydrochlorofluorocarbon-123 (HCFC-123)	hydrochlorofluorocarbon-235 (HCFC 235)
hydrochlorofluorocarbon-124 (HCFC-124)	hydrochlorofluorocarbon-241 (HCFC 241)
hydrochlorofluorocarbon-131 (HCFC-131)	hydrochlorofluorocarbon-242 (HCFC 242)
hydrochlorofluorocarbon-132 (HCFC-132)	hydrochlorofluorocarbon-243 (HCFC 243)
hydrochlorofluorocarbon-133 (HCFC-133)	hydrochlorofluorocarbon-244 (HCFC-244)
hydrochlorofluorocarbon-141 (HCFC-141)	hydrochlorofluorocarbon-251 (HCFC 251)
hydrochlorofluorocarbon-142 (HCFC-142)	hydrochlorofluorocarbon-252 (HCFC 252)
hydrochlorofluorocarbon-221 (HCFC-221)	hydrochlorofluorocarbon-253 (HCFC-253)
hydrochlorofluorocarbon-222 (HCFC-222)	hydrochlorofluorocarbon-261 (HCFC-261)
hydrochlorofluorocarbon-223 (HCFC-223)	hydrochlorofluorocarbon-262 (HCFC-262)
hydrochlorofluorocarbon-224 (HCFC-224)	hydrochlorofluorocarbon-271 (HCFC-271)
hydrochlorofluorocarbon-225 (HCFC-225)	

The initial list under this subsection shall also include the isomers of the substances listed above. Pursuant to subsection (c), the Administrator shall add to the list of class II substances any other substance that the Administra-

tor finds is known or may reasonably be anticipated to cause or contribute to harmful effects on the stratospheric ozone layer.

(c) ADDITIONS TO THE LISTS.—(1) The Administrator may add, by rule, in accordance with the criteria set forth in subsection (a) or (b), as the case may be, any substance to the list of class I or class II substances under subsection (a) or (b). For purposes of exchanges under section 507, whenever a substance is added to the list of class I substances the Administrator shall, to the extent consistent with the Montreal Protocol, assign such substance to existing Group I, II, III, IV, or V or place such substance in a new Group.

(2) Periodically, but not less frequently than every 3 years after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall list, by rule, as additional class I or class II substances those substances which the Administrator finds meet the criteria of subsection (a) or (b), as the case may be.

(3) At any time, any person may petition the Administrator to add a substance to the list of class I or class II substances. Pursuant to the criteria set forth in subsection (a) or (b) as the case may be, within 180 days after receiving such a petition, the Administrator shall either propose to add the substance to such list or publish an explanation of the petition denial. In any case where the Administrator proposes to add a substance to such list, the Administrator shall add, by rule, (or make a final determination not to add) such substance to such list within 1 year after receiving such petition. Any petition under this paragraph shall include a showing by the petitioner that there are data on the substance adequate to support the petition. If the Administrator determines that information on the substance is not sufficient to make a determination under this paragraph, the Administrator shall use any authority available to the Administrator, under any law administered by the Administrator, to acquire such information.

(4) Only a class II substance which is added to the list of class I substances may be removed from the list of class II substances. No substance referred to in subsection (a), including methyl chloroform, may be removed from the list of class I substances.

(d) NEW LISTED SUBSTANCES.—In the case of any substance added to the list of class I or class II substances after publication of the initial list of such substances under this section, the Administrator may extend any schedule or compliance deadline contained in section 604 or 605 to a later date than specified in such sections if such schedule or deadline is unattainable, considering when such substance is added to the list. No extension under this subsection may extend the date for termination of production of any class I substance to a date more than 7 years after January 1 of the year after the year in which the substance is added to the list of class I substances. No extension under this subsection may extend the date for termination of production of any class II substance to a date more than 10 years after January 1 of the year after the year in which the substance is added to the list of class II substances.

(e) OZONE-DEPLETION AND GLOBAL WARMING POTENTIAL.—Simultaneously with publication of the lists under this section and simultaneously with any addition to either of such lists, the Administrator shall assign to each listed substance a numerical value representing the substance's ozone-depletion potential. In addition, the Administrator shall publish the chlorine and bromine loading potential and the atmospheric lifetime of each listed substance. One year after enactment of the Clean Air Act Amendments of 1990 (one year after the addition of a substance to either of such lists in the case of a substance added after the publication of the initial lists of such substances), and after notice and opportunity for public comment, the Administrator shall publish the global warming potential of each listed substance. The preceding sentence shall not be construed to be the basis of any additional regulation under this Act. In the case of the substances referred to in table 1, the ozone-depletion potential shall be as specified in table 1, unless the Administrator adjusts the substance's ozone-depletion potential based on criteria referred to in section 601(10):

TABLE 1

<i>Substance</i>	<i>Ozone-depletion potential</i>
chlorofluorocarbon-11 (CFC-11)	1.0
chlorofluorocarbon-12 (CFC-12)	1.0
chlorofluorocarbon-13 (CFC-13)	1.0
chlorofluorocarbon-111 (CFC-111)	1.0
chlorofluorocarbon-112 (CFC-112)	1.0
chlorofluorocarbon-113 (CFC-113)	0.8
chlorofluorocarbon-114 (CFC-114)	1.0
chlorofluorocarbon-115 (CFC-115)	0.6
chlorofluorocarbon-211 (CFC-211)	1.0
chlorofluorocarbon-212 (CFC-212)	1.0
chlorofluorocarbon-213 (CFC-213)	1.0
chlorofluorocarbon-214 (CFC-214)	1.0
chlorofluorocarbon-215 (CFC-215)	1.0
chlorofluorocarbon-216 (CFC-216)	1.0
chlorofluorocarbon-217 (CFC-217)	1.0
halon-1211	3.0
halon-1301	10.0
halon-2402	6.0
carbon tetrachloride	1.1
methyl chloroform	0.1
hydrochlorofluorocarbon-22 (HCFC-22)	0.05
hydrochlorofluorocarbon-123 (HCFC-123)	0.02
hydrochlorofluorocarbon-124 (HCFC-124)	0.02
hydrochlorofluorocarbon-141(b) (HCFC-141(b))	0.1
hydrochlorofluorocarbon-142(b) (HCFC-142(b))	0.06

Where the ozone-depletion potential of a substance is specified in the Montreal Protocol, the ozone-depletion potential specified for that substance under this section shall be consistent with the Montreal Protocol.

[¶ 2603]

Sec. 603. MONITORING AND REPORTING REQUIREMENTS.

(a) **REGULATIONS.**—Within 270 days after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall amend the regulations of the Administrator in effect on such date regarding monitoring and reporting of class I and class II substances. Such amendments shall conform to the requirements of this section. The amended regulations shall include requirements with respect to the time and manner of monitoring and reporting as required under this section.

(b) **PRODUCTION, IMPORT, AND EXPORT LEVEL REPORTS.**—On a quarterly basis, or such other basis (not less than annually) as determined by the Administrator, each person who produced, imported, or exported a class I or class II substance shall file a report with the Administrator setting forth the amount of the substance that such person produced, imported, and exported during the preceding reporting period. Each such report shall be signed and attested by a responsible officer. No such report shall be required from a person after April 1 of the calendar year after such person permanently ceases production, importation, and exportation of the substance and so notifies the Administrator in writing.

(c) **BASELINE REPORTS FOR CLASS I SUBSTANCES.**—Unless such information has previously been reported to the Administrator, on the date on which the first report under subsection (b) is required to be filed, each person who produced, imported, or exported a class I substance (other than a substance added to the list of class I substances after the publication of the initial list of such substances under this section) shall file a report with the Administrator setting forth the amount of such substance that such person produced, imported, and exported during the baseline year. In the case of a substance added to the list of class I substances after publication of the initial list of such substances under this section, the regulations shall require that each person who produced, imported, or exported such substance shall file a report with the Administrator within 180 days after the date on which such substance is added to the list, setting forth the amount of the substance that such person produced, imported, and exported in the baseline year.

(d) **MONITORING AND REPORTS TO CONGRESS.**—(1) The Administrator shall monitor and, not less often than every 3 years following enactment of the Clean Air Act Amendments of 1990, submit a report to Congress on the production, use and consumption of class I and class II substances. Such report shall include data on domestic production, use and consumption, and an estimate of worldwide production, use and consumption of such substances. Not less frequently than every 6 years the Administrator shall report to Congress on the environmental and economic effects of any stratospheric ozone depletion.

(2) The Administrators of the National Aeronautics and Space Administration and the National Oceanic and Atmospheric Administration shall monitor, and not less often than every 3 years following enactment of the Clean Air Act Amendments of 1990, submit a report to Congress on the current average tropospheric concentration of chlorine and bromine and on the level of stratospheric ozone depletion. Such reports shall include updated projections of—

(A) peak chlorine loading;

(B) the rate at which the atmospheric abundance of chlorine is projected to decrease after the year 2000; and

(C) the date by which the atmospheric abundance of chlorine is projected to return to a level of two parts per billion.

Such updated projections shall be made on the basis of current international and domestic controls on substances covered by this title as well as on the basis of such controls supplemented by a year 2000 global phase out of all halocarbon emissions (the base case). It is the purpose of the Congress through the provisions of this section to monitor closely the production and consumption of class II substances to assure that the production and consumption of such substances will not:

(i) increase significantly the peak chlorine loading that is projected to occur under the base case established for purposes of this section;

(ii) reduce significantly the rate at which the atmospheric abundance of chlorine is projected to decrease under the base case; or

(iii) delay the date by which the average atmospheric concentration of chlorine is projected under the base case to return to a level of two parts per billion.

(e) **TECHNOLOGY STATUS REPORT IN 2015.**—The Administrator shall review, on a periodic basis, the progress being made in the development of alternative systems or products necessary to manufacture and operate appliances without class II substances. If the Administrator finds, after notice and opportunity for public comment, that as a result of technological development problems, the development of such alternative systems or products will not occur within the time necessary to provide for the manufacture of such equipment without such substances prior to the applicable deadlines under section 605, the Administrator shall, not later than January 1, 2015, so inform the Congress.

(f) **EMERGENCY REPORT.**—If, in consultation with the Administrators of the National Aeronautics and Space Administration and the National Oceanic and Atmospheric Administration, and after notice and opportunity for public comment, the Administrator determines that the global production, consumption, and use of class II substances are projected to contribute to an atmospheric chlorine loading in excess of the base case projections by more than $\frac{5}{10}$ ths parts per billion, the Administrator shall so inform the Congress

immediately. The determination referred to in the preceding sentence shall be based on the monitoring under subsection (d) and updated not less often than every 3 years.

[¶ 2604]

Sec. 604. PHASE-OUT OF PRODUCTION AND CONSUMPTION OF CLASS I SUBSTANCES.

(a) PRODUCTION PHASE-OUT.—Effective on January 1 of each year specified in Table 2, it shall be unlawful for any person to produce any class I substance in an annual quantity greater than the relevant percentage specified in Table 2. The percentages in Table 2 refer to a maximum allowable production as a percentage of the quantity of the substance produced by the person concerned in the baseline year.

TABLE 2

<i>Date</i>	<i>Carbon tetra- chloride</i>	<i>Methyl chloro- form</i>	<i>Other class I sub- stances</i>
1991	100%	100%	85%
1992	90%	100%	80%
1993	80%	90%	75%
1994	70%	85%	65%
1995	15%	70%	50%
1996	15%	50%	40%
1997	15%	50%	15%
1998	15%	50%	15%
1999	15%	50%	15%
2000	...	20%	...
2001	...	20%	...

(b) TERMINATION OF PRODUCTION OF CLASS I SUBSTANCES.—Effective January 1, 2000 (January 1, 2002 in the case of methyl chloroform), it shall be unlawful for any person to produce any amount of a class I substance.

(c) REGULATIONS REGARDING PRODUCTION AND CONSUMPTION OF CLASS I SUBSTANCES.—The Administrator shall promulgate regulations within 10 months after the enactment of the Clean Air Act Amendments of 1990 phasing out the production of class I substances in accordance with this section and other applicable provisions of this title. The Administrator shall also promulgate regulations to insure that the consumption of class I substances in the United States is phased out and terminated in accordance with the same schedule (subject to the same exceptions and other provisions) as is applicable to the phase-out and termination of production of class I substances under this title.

(d) EXCEPTIONS FOR ESSENTIAL USES OF METHYL CHLOROFORM, MEDICAL DEVICES, AND AVIATION SAFETY.—

(1) **ESSENTIAL USES OF METHYL CHLOROFORM.**—Notwithstanding the termination of production required by subsection (b), during the period beginning on January 1, 2002, and ending on January 1, 2005, the Administrator, after notice and opportunity for public comment, may, to the extent such action is consistent with the Montreal Protocol, authorize the production of limited quantities of methyl chloroform solely for use in essential applications (such as nondestructive testing for metal fatigue and corrosion of existing airplane engines and airplane parts susceptible to metal fatigue) for which no safe and effective substitute is available. Notwithstanding this paragraph, the authority to produce methyl chloroform for use in medical devices shall be provided in accordance with paragraph (2).

(2) **MEDICAL DEVICES.**—Notwithstanding the termination of production required by subsection (b), the Administrator, after notice and opportunity for public comment, shall, to the extent such action is consistent with the Montreal Protocol, authorize the production of limited quantities of class I substances solely for use in medical devices if such authorization is determined by the Commissioner, in consultation with the Administrator, to be necessary for use in medical devices.

(3) **AVIATION SAFETY.**—(A) Notwithstanding the termination of production required by subsection (b), the Administrator, after notice and opportunity for public comment, may, to the extent such action is consistent with the Montreal Protocol, authorize the production of limited quantities of halon-1211 (bromochlorodifluoromethane), halon-1301 (bromotrifluoromethane), and halon-2402 (dibromotetrafluoroethane) solely for purposes of aviation safety if the Administrator of the Federal Aviation Administration, in consultation with the Administrator, determines that no safe and effective substitute has been developed and that such authorization is necessary for aviation safety purposes.

(B) The Administrator of the Federal Aviation Administration shall, in consultation with the Administrator, examine whether safe and effective substitutes for methyl chloroform or alternative techniques will be available for nondestructive testing for metal fatigue and corrosion of existing airplane engines and airplane parts susceptible to metal fatigue and whether an exception for such uses of methyl chloroform under this paragraph will be necessary for purposes of airline safety after January 1, 2005 and provide a report to Congress in 1998.

(4) **CAP ON CERTAIN EXCEPTIONS.**—Under no circumstances may the authority set forth in paragraphs (1), (2), and (3) of subsection (d) be applied to authorize any person to produce a class I substance in annual quantities greater than 10 percent of that produced by such person during the baseline year.

(e) **DEVELOPING COUNTRIES.**—

(1) **EXCEPTION.**—Notwithstanding the phase-out and termination of production required under subsections (a) and (b), the Administrator,

after notice and opportunity for public comment, may, consistent with the Montreal Protocol, authorize the production of limited quantities of a class I substance in excess of the amounts otherwise allowable under subsection (a) or (b), or both, solely for export to, and use in, developing countries that are Parties to the Montreal Protocol and are operating under article 5 of such Protocol. Any production authorized under this paragraph shall be solely for purposes of satisfying the basic domestic needs of such countries.

(2) CAP ON EXCEPTION.—(A) Under no circumstances may the authority set forth in paragraph (1) be applied to authorize any person to produce a class I substance in any year for which a production percentage is specified in Table 2 of subsection (a) in an annual quantity greater than the specified percentage, plus an amount equal to 10 percent of the amount produced by such person in the baseline year.

(B) Under no circumstances may the authority set forth in paragraph (1) be applied to authorize any person to produce a class I substance in the applicable termination year referred to in subsection (b), or in any year thereafter, in an annual quantity greater than 15 percent of the baseline quantity of such substance produced by such person.

(C) An exception authorized under this subsection shall terminate no later than January 1, 2010 (2012 in the case of methyl chloroform).

(f) NATIONAL SECURITY.—The President may, to the extent such action is consistent with the Montreal Protocol, issue such orders regarding production and use of CFC-114 (chlorofluorocarbon-114), halon-1211, halon-1301, and halon-2402, at any specified site or facility or on any vessel as may be necessary to protect the national security interests of the United States if the President finds that adequate substitutes are not available and that the production and use of such substance are necessary to protect such national security interest. Such orders may include, where necessary to protect such interests, an exemption from any prohibition or requirement contained in this title. The President shall notify the Congress within 30 days of the issuance of an order under this paragraph providing for any such exemption. Such notification shall include a statement of the reasons for the granting of the exemption. An exemption under this paragraph shall be for a specified period which may not exceed one year. Additional exemptions may be granted, each upon the President's issuance of a new order under this paragraph. Each such additional exemption shall be for a specified period which may not exceed one year. No exemption shall be granted under this paragraph due to lack of appropriation unless the President shall have specifically requested such appropriation as a part of the budgetary process and the Congress shall have failed to make available such requested appropriation.

(g) FIRE SUPPRESSION AND EXPLOSION PREVENTION.—(1) Notwithstanding the production phase-out set forth in subsection (a), the Administrator, after notice and opportunity for public comment, may, to the extent such action is consistent with the Montreal Protocol, authorize the production of limited

quantities of halon-1211, halon-1301, and halon-2402 in excess of the amount otherwise permitted pursuant to the schedule under subsection (a) solely for purposes of fire suppression or explosion prevention if the Administrator, in consultation with the Administrator of the United States Fire Administration, determines that no safe and effective substitute has been developed and that such authorization is necessary for fire suppression or explosion prevention purposes. The Administrator shall not authorize production under this paragraph for purposes of fire safety or explosion prevention training or testing of fire suppression or explosion prevention equipment. In no event shall the Administrator grant an exception under this paragraph that permits production after December 31, 1999.

(2) The Administrator shall periodically monitor and assess the status of efforts to obtain substitutes for the substances referred to in paragraph (1) for purposes of fire suppression or explosion prevention and the probability of such substitutes being available by December 31, 1999. The Administrator, as part of such assessment, shall consider any relevant assessments under the Montreal Protocol and the actions of the Parties pursuant to Article 2B of the Montreal Protocol in identifying essential uses and in permitting a level of production or consumption that is necessary to satisfy such uses for which no adequate alternatives are available after December 31, 1999. The Administrator shall report to Congress the results of such assessment in 1994 and again in 1998.

(3) Notwithstanding the termination of production set forth in subsection (b), the Administrator, after notice and opportunity for public comment, may, to the extent consistent with the Montreal Protocol, authorize the production of limited quantities of halon-1211, halon-1301, and halon-2402 in the period after December 31, 1999, and before December 31, 2004, solely for purposes of fire suppression or explosion prevention in association with domestic production of crude oil and natural gas energy supplies on the North Slope of Alaska, if the Administrator, in consultation with the Administrator of the United States Fire Administration, determines that no safe and effective substitute has been developed and that such authorization is necessary for fire suppression and explosion prevention purposes. The Administrator shall not authorize production under the paragraph for purposes of fire safety or explosion prevention training or testing of fire suppression or explosion prevention equipment. In no event shall the Administrator authorize under this paragraph any person to produce any such halon in an amount greater than 3 percent of that produced by such person during the baseline year.

[¶ 2605]

Sec. 605. PHASE-OUT OF PRODUCTION AND CONSUMPTION OF CLASS II SUBSTANCES.

(a) **RESTRICTION OF USE OF CLASS II SUBSTANCES.**—Effective January 1, 2015, it shall be unlawful for any person to introduce into interstate commerce or use any class II substance unless such substance—

(1) has been used, recovered, and recycled;

¶ 2605 Sec. 605

(2) is used and entirely consumed (except for trace quantities) in the production of other chemicals; or

(3) is used as a refrigerant in appliances manufactured prior to January 1, 2020.

As used in this subsection, the term “refrigerant” means any class II substance used for heat transfer in a refrigerating system.

(b) PRODUCTION PHASE-OUT.—(1) Effective January 1, 2015, it shall be unlawful for any person to produce any class II substance in an annual quantity greater than the quantity of such substance produced by such person during the baseline year.

(2) Effective January 1, 2030, it shall be unlawful for any person to produce any class II substance.

(c) REGULATIONS REGARDING PRODUCTION AND CONSUMPTION OF CLASS II SUBSTANCES.—By December 31, 1999, the Administrator shall promulgate regulations phasing out the production, and restricting the use, of class II substances in accordance with this section, subject to any acceleration of the phase-out of production under section 606. The Administrator shall also promulgate regulations to insure that the consumption of class II substances in the United States is phased out and terminated in accordance with the same schedule (subject to the same exceptions and other provisions) as is applicable to the phase-out and termination of production of class II substances under this title.

(d) EXCEPTIONS.—

(1) MEDICAL DEVICES.—

(A) IN GENERAL.—Notwithstanding the termination of production required under subsection (b)(2) and the restriction on use referred to in subsection (a), the Administrator, after notice and opportunity for public comment, shall, to the extent such action is consistent with the Montreal Protocol, authorize the production and use of limited quantities of class II substances solely for purposes of use in medical devices if such authorization is determined by the Commissioner, in consultation with the Administrator, to be necessary for use in medical devices.

(B) CAP ON EXCEPTION.—Under no circumstances may the authority set forth in subparagraph (A) be applied to authorize any person to produce a class II substance in annual quantities greater than 10 percent of that produced by such person during the baseline year.

(2) DEVELOPING COUNTRIES.—

(A) IN GENERAL.—Notwithstanding the provisions of subsection (a) or (b), the Administrator, after notice and opportunity for public comment, may authorize the production of limited quantities of a class II substance in excess of the quantities otherwise permitted under such provisions solely for export to and use in developing

countries that are Parties to the Montreal Protocol, as determined by the Administrator. Any production authorized under this subsection shall be solely for purposes of satisfying the basic domestic needs of such countries.

(B) CAP ON EXCEPTION.—(i) Under no circumstances may the authority set forth in subparagraph (A) be applied to authorize any person to produce a class II substance in any year following the effective date of subsection (b)(1) and before the year 2030 in annual quantities greater than 110 percent of the quantity of such substance produced by such person during the baseline year.

(ii) Under no circumstances may the authority set forth in subparagraph (A) be applied to authorize any person to produce a class II substance in the year 2030, or any year thereafter, in an annual quantity greater than 15 percent of the quantity of such substance produced by such person during the baseline year.

(iii) Each exception authorized under this paragraph shall terminate no later than January 1, 2040.

[¶ 2606]

Sec. 606. ACCELERATED SCHEDULE.

(a) IN GENERAL.—The Administrator shall promulgate regulations, after notice and opportunity for public comment, which establish a schedule for phasing out the production and consumption of class I and class II substances (or use of class II substances) that is more stringent than set forth in section 604 or 605, or both, if—

(1) based on an assessment of credible current scientific information (including any assessment under the Montreal Protocol) regarding harmful effects on the stratospheric ozone layer associated with a class I or class II substance, the Administrator determines that such more stringent schedule may be necessary to protect human health and the environment against such effects,

(2) based on the availability of substitutes for listed substances, the Administrator determines that such more stringent schedule is practicable, taking into account technological achievability, safety, and other relevant factors, or

(3) the Montreal Protocol is modified to include a schedule to control or reduce production, consumption, or use of any substance more rapidly than the applicable schedule under this title.

In making any determination under paragraphs (1) and (2), the Administrator shall consider the status of the period remaining under the applicable schedule under this title.

(b) PETITION.—Any person may petition the Administrator to promulgate regulations under this section. The Administrator shall grant or deny the petition within 180 days after receipt of any such petition. If the Administra-

tor denies the petition, the Administrator shall publish an explanation of why the petition was denied. If the Administrator grants such petition, such final regulations shall be promulgated within 1 year. Any petition under this subsection shall include a showing by the petitioner that there are data adequate to support the petition. If the Administrator determines that information is not sufficient to make a determination under this subsection, the Administrator shall use any authority available to the Administrator, under any law administered by the Administrator, to acquire such information.

[¶ 2607]

Sec. 607. EXCHANGE AUTHORITY.

(a) TRANSFERS.—The Administrator shall, within 10 months after the enactment of the Clean Air Act Amendments of 1990, promulgate rules under this title providing for the issuance of allowances for the production of class I and II substances in accordance with the requirements of this title and governing the transfer of such allowances. Such rules shall insure that the transactions under the authority of this section will result in greater total reductions in the production in each year of class I and class II substances than would occur in that year in the absence of such transactions.

(b) INTERPOLLUTANT TRANSFERS.—(1) The rules under this section shall permit a production allowance for a substance for any year to be transferred for a production allowance for another substance for the same year on an ozone depletion weighted basis.

(2) Allowances for substances in each group of class I substances (as listed pursuant to section 602) may only be transferred for allowances for other substances in the same Group.

(3) The Administrator shall, as appropriate, establish groups of class II substances for trading purposes and assign class II substances to such groups. In the case of class II substances, allowances may only be transferred for allowances for other class II substances that are in the same Group.

(c) TRADES WITH OTHER PERSONS.—The rules under this section shall permit 2 or more persons to transfer production allowances (including interpolutant transfers which meet the requirements of subsections (a) and (b)) if the transferor of such allowances will be subject, under such rules, to an enforceable and quantifiable reduction in annual production which—

(1) exceeds the reduction otherwise applicable to the transferor under this title,

(2) exceeds the production allowances transferred to the transferee, and

(3) would not have occurred in the absence of such transaction.

(d) CONSUMPTION.—The rules under this section shall also provide for the issuance of consumption allowances in accordance with the requirements of this title and for the trading of such allowances in the same manner as is

applicable under this section to the trading of production allowances under this section.

[¶ 2608]

Sec. 608. NATIONAL RECYCLING AND EMISSION REDUCTION PROGRAM.

(a) **IN GENERAL.**—(1) The Administrator shall, by not later than January 1, 1992, promulgate regulations establishing standards and requirements regarding the use and disposal of class I substances during the service, repair, or disposal of appliances and industrial process refrigeration. Such standards and requirements shall become effective not later than July 1, 1992.

(2) The Administrator shall, within 4 years after the enactment of the Clean Air Act Amendments of 1990, promulgate regulations establishing standards and requirements regarding use and disposal of class I and II substances not covered by paragraph (1), including the use and disposal of class II substances during service, repair, or disposal of appliances and industrial process refrigeration. Such standards and requirements shall become effective not later than 12 months after promulgation of the regulations.

(3) The regulations under this subsection shall include requirements that—

(A) reduce the use and emission of such substances to the lowest achievable level, and

(B) maximize the recapture and recycling of such substances. Such regulations may include requirements to use alternative substances (including substances which are not class I or class II substances) or to minimize use of class I or class II substances, or to promote the use of safe alternatives pursuant to section 612 or any combination of the foregoing.

(b) **SAFE DISPOSAL.**—The regulations under subsection (a) shall establish standards and requirements for the safe disposal of class I and II substances. Such regulations shall include each of the following—

(1) Requirements that class I or class II substances contained in bulk in appliances, machines or other goods shall be removed from each such appliance, machine or other good prior to the disposal of such items or their delivery for recycling.

(2) Requirements that any appliance, machine or other good containing a class I or class II substance in bulk shall not be manufactured, sold, or distributed in interstate commerce or offered for sale or distribution in interstate commerce unless it is equipped with a servicing aperture or an equally effective design feature which will facilitate the recapture of such substance during service and repair or disposal of such item.

(3) Requirements that any product in which a class I or class II substance is incorporated so as to constitute an inherent element of such product shall be disposed of in a manner that reduces, to the maximum

extent practicable, the release of such substance into the environment. If the Administrator determines that the application of this paragraph to any product would result in producing only insignificant environmental benefits, the Administrator shall include in such regulations an exception for such product.

(c) PROHIBITIONS.—(1) Effective July 1, 1992, it shall be unlawful for any person, in the course of maintaining, servicing, repairing, or disposing of an appliance or industrial process refrigeration, to knowingly vent or otherwise knowingly release or dispose of any class I or class II substance used as a refrigerant in such appliance (or industrial process refrigeration) in a manner which permits such substance to enter the environment. De minimis releases associated with good faith attempts to recapture and recycle or safely dispose of any such substance shall not be subject to the prohibition set forth in the preceding sentence.

(2) Effective 5 years after the enactment of the Clean Air Act Amendments of 1990, paragraph (1) shall also apply to the venting, release, or disposal of any substitute substance for a class I or class II substance by any person maintaining, servicing, repairing, or disposing of an appliance or industrial process refrigeration which contains and uses as a refrigerant any such substance, unless the Administrator determines that venting, releasing, or disposing of such substance does not pose a threat to the environment. For purposes of this paragraph, the term “appliance” includes any device which contains and uses as a refrigerant a substitute substance and which is used for household or commercial purposes, including any air conditioner, refrigerator, chiller, or freezer.

¶ 2609]

Sec. 609. SERVICING OF MOTOR VEHICLE AIR CONDITIONERS.

(a) REGULATIONS.—Within 1 year after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate regulations in accordance with this section establishing standards and requirements regarding the servicing of motor vehicle air conditioners.

(b) DEFINITIONS.—As used in this section—

(1) The term “refrigerant” means any class I or class II substance used in a motor vehicle air conditioner. Effective 5 years after the enactment of the Clean Air Act Amendments of 1990, the term “refrigerant” shall also include any substitute substance.

(2)(A) The term “approved refrigerant recycling equipment” means equipment certified by the Administrator (or an independent standards testing organization approved by the Administrator) to meet the standards established by the Administrator and applicable to equipment for the extraction and reclamation of refrigerant from motor vehicle air conditioners. Such standards shall, at a minimum, be at least as stringent as the standards of the Society of Automotive Engineers in effect as of the date of the enactment of the Clean Air Act Amendments of 1990 and applicable to such equipment (SAE standard J-1990).

(B) Equipment purchased before the proposal of regulations under this section shall be considered certified if it is substantially identical to equipment certified as provided in subparagraph (A).

(3) The term "properly using" means, with respect to approved refrigerant recycling equipment, using such equipment in conformity with standards established by the Administrator and applicable to the use of such equipment. Such standards shall, at a minimum, be at least as stringent as the standards of the Society of Automotive Engineers in effect as of the date of the enactment of the Clean Air Act Amendments of 1990 and applicable to the use of such equipment (SAE standard J-1989).

(4) The term "properly trained and certified" means training and certification in the proper use of approved refrigerant recycling equipment for motor vehicle air conditioners in conformity with standards established by the Administrator and applicable to the performance of service on motor vehicle air conditioners. Such standards shall, at a minimum, be at least as stringent as specified, as of the date of the enactment of the Clean Air Act Amendments of 1990, in SAE standard J-1989 under the certification program of the National Institute for Automotive Service Excellence (ASE) or under a similar program such as the training and certification program of the Mobile Air Conditioning Society (MACS).

(c) **SERVICING MOTOR VEHICLE AIR CONDITIONERS.**—Effective January 1, 1992, no person repairing or servicing motor vehicles for consideration may perform any service on a motor vehicle air conditioner involving the refrigerant for such air conditioner without properly using approved refrigerant recycling equipment and no such person may perform such service unless such person has been properly trained and certified. The requirements of the previous sentence shall not apply until January 1, 1993 in the case of a person repairing or servicing motor vehicles for consideration at an entity which performed service on fewer than 100 motor vehicle air conditioners during calendar year 1990 and if such person so certifies, pursuant to subsection (d)(2), to the Administrator by January 1, 1992.

(d) **CERTIFICATION.**—(1) Effective 2 years after the enactment of the Clean Air Act Amendments of 1990, each person performing service on motor vehicle air conditioners for consideration shall certify to the Administrator either—

(A) that such person has acquired, and is properly using, approved refrigerant recycling equipment in service on motor vehicle air conditioners involving refrigerant and that each individual authorized by such person to perform such service is properly trained and certified; or

(B) that such person is performing such service at an entity which serviced fewer than 100 motor vehicle air conditioners in 1991.

(2) Effective January 1, 1993, each person who certified under paragraph (1)(B) shall submit a certification under paragraph (1)(A).

(3) Each certification under this subsection shall contain the name and address of the person certifying under this subsection and the serial number of each unit of approved recycling equipment acquired by such person and shall be signed and attested by the owner or another responsible officer. Certifications under paragraph (1)(A) may be made by submitting the required information to the Administrator on a standard form provided by the manufacturer of certified refrigerant recycling equipment.

(e) **SMALL CONTAINERS OF CLASS I OR CLASS II SUBSTANCES.**—Effective 2 years after the date of the enactment of the Clean Air Act Amendments of 1990, it shall be unlawful for any person to sell or distribute, or offer for sale or distribution, in interstate commerce to any person (other than a person performing service for consideration on motor vehicle air-conditioning systems in compliance with this section) any class I or class II substance that is suitable for use as a refrigerant in a motor vehicle air-conditioning system and that is in a container which contains less than 20 pounds of such refrigerant.

[¶ 2610]

Sec. 610. NONESSENTIAL PRODUCTS CONTAINING CHLOROFLUOROCARBONS.

(a) **REGULATIONS.**—The Administrator shall promulgate regulations to carry out the requirements of this section within 1 year after the enactment of the Clean Air Act Amendments of 1990.

(b) **NONESSENTIAL PRODUCTS.**—The regulations under this section shall identify nonessential products that release class I substances into the environment (including any release occurring during manufacture, use, storage, or disposal) and prohibit any person from selling or distributing any such product, or offering any such product for sale or distribution, in interstate commerce. At a minimum, such prohibition shall apply to—

(1) chlorofluorocarbon-propelled plastic party streamers and noise horns,

(2) chlorofluorocarbon-containing cleaning fluids for noncommercial electronic and photographic equipment, and

(3) other consumer products that are determined by the Administrator—

(A) to release class I substances into the environment (including any release occurring during manufacture, use, storage, or disposal), and

(B) to be nonessential.

In determining whether a product is nonessential the Administrator shall consider the purpose or intended use of the product, the technological availa-

bility of substitutes for such product and for such class I substance, safety, health, and other relevant factors.

(c) **EFFECTIVE DATE.**—Effective 24 months after the enactment of the Clean Air Act Amendments of 1990, it shall be unlawful for any person to sell or distribute, or offer for sale or distribution, in interstate commerce any nonessential product to which regulations under subsection (a) implementing subsection (b) are applicable.

(d) **OTHER PRODUCTS.**—(1) Effective January 1, 1994, it shall be unlawful for any person to sell or distribute, or offer for sale or distribution, in interstate commerce—

(A) any aerosol product or other pressurized dispenser which contains a class II substance; or

(B) any plastic foam product which contains, or is manufactured with, a class II substance.

(2) The Administrator is authorized to grant exceptions from the prohibition under subparagraph (A) of paragraph (1) where—

(A) the use of the aerosol product or pressurized dispenser is determined by the Administrator to be essential as a result of flammability or worker safety concerns, and

(B) the only available alternative to use of a class II substance is use of a class I substance which legally could be substituted for such class II substance.

(3) Subparagraph (B) of paragraph (1) shall not apply to—

(A) a foam insulation product, or

(B) an integral skin, rigid, or semi-rigid foam utilized to provide for motor vehicle safety in accordance with Federal Motor Vehicle Safety Standards where no adequate substitute substance (other than a class I or class II substance) is practicable for effectively meeting such Standards.

(e) **MEDICAL DEVICES.**—Nothing in this section shall apply to any medical device as defined in section 601(8).

[¶ 2611]

Sec. 611. LABELING.

(a) **REGULATIONS.**—The Administrator shall promulgate regulations to implement the labeling requirements of this section within 18 months after enactment of the Clean Air Act Amendments of 1990, after notice and opportunity for public comment.

(b) **CONTAINERS CONTAINING CLASS I OR CLASS II SUBSTANCES AND PRODUCTS CONTAINING CLASS I SUBSTANCES.**—Effective 30 months after the enactment of the Clean Air Act Amendments of 1990, no container in which a class I or class II substance is stored or transported, and no product containing a class I substance, shall be introduced into interstate commerce unless it bears a clearly legible and conspicuous label stating:

¶ 2611 Sec. 611

Warning: Contains [insert name of substance], a substance which harms public health and environment by destroying ozone in the upper atmosphere.

(c) PRODUCTS CONTAINING CLASS II SUBSTANCES.—(1) After 30 months after the enactment of the Clean Air Act Amendments of 1990, and before January 1, 2015, no product containing a class II substance shall be introduced into interstate commerce unless it bears the label referred to in subsection (b) if the Administrator determines, after notice and opportunity for public comment, that there are substitute products or manufacturing processes (A) that do not rely on the use of such class II substance, (B) that reduce the overall risk to human health and the environment, and (C) that are currently or potentially available.

(2) Effective January 1, 2015, the requirements of subsection (b) shall apply to all products containing a class II substance.

(d) PRODUCTS MANUFACTURED WITH CLASS I AND CLASS II SUBSTANCES.—(1) In the case of a class II substance, after 30 months after the enactment of the Clean Air Act Amendments of 1990, and before January 1, 2015, if the Administrator, after notice and opportunity for public comment, makes the determination referred to in subsection (c) with respect to a product manufactured with a process that uses such class II substance, no such product shall be introduced into interstate commerce unless it bears a clearly legible and conspicuous label stating:

Warning: Manufactured with [insert name of substance], a substance which harms public health and environment by destroying ozone in the upper atmosphere.

(2) In the case of a class I substance, effective 30 months after the enactment of the Clean Air Act Amendments of 1990, and before January 1, 2015, the labeling requirements of this subsection shall apply to all products manufactured with a process that uses such class I substance unless the Administrator determines that there are no substitute products or manufacturing processes that (A) do not rely on the use of such class I substance, (B) reduce the overall risk to human health and the environment, and (C) are currently or potentially available.

(e) PETITIONS.—(1) Any person may, at any time after 18 months after the enactment of the Clean Air Act Amendments of 1990, petition the Administrator to apply the requirements of this section to a product containing a class II substance or a product manufactured with a class I or II substance which is not otherwise subject to such requirements. Within 180 days after receiving such petition, the Administrator shall, pursuant to the criteria set forth in subsection (c), either propose to apply the requirements of this section to such product or publish an explanation of the petition denial. If the Administrator proposes to apply such requirements to such product, the Administrator shall, by rule, render a final determination pursuant to such criteria within 1 year after receiving such petition.

(2) Any petition under this paragraph shall include a showing by the petitioner that there are data on the product adequate to support the petition.

(3) If the Administrator determines that information on the product is not sufficient to make the required determination the Administrator shall use any authority available to the Administrator under any law administered by the Administrator to acquire such information.

(4) In the case of a product determined by the Administrator, upon petition or on the Administrator's own motion, to be subject to the requirements of this section, the Administrator shall establish an effective date for such requirements. The effective date shall be 1 year after such determination or 30 months after the enactment of the Clean Air Act Amendments of 1990, whichever is later.

(5) Effective January 1, 2015, the labeling requirements of this subsection shall apply to all products manufactured with a process that uses a class I or class II substance.

(f) RELATIONSHIP TO OTHER LAW.—(1) The labeling requirements of this section shall not constitute, in whole or part, a defense to liability or a cause for reduction in damages in any suit, whether civil or criminal, brought under any law, whether Federal or State, other than a suit for failure to comply with the labeling requirements of this section.

(2) No other approval of such label by the Administrator under any other law administered by the Administrator shall be required with respect to the labeling requirements of this section.

[¶ 2612]

Sec. 612. SAFE ALTERNATIVES POLICY.

(a) POLICY.—To the maximum extent practicable, class I and class II substances shall be replaced by chemicals, product substitutes, or alternative manufacturing processes that reduce overall risks to human health and the environment.

(b) REVIEWS AND REPORTS.—The Administrator shall—

(1) in consultation and coordination with interested members of the public and the heads of relevant Federal agencies and departments, recommend Federal research programs and other activities to assist in identifying alternatives to the use of class I and class II substances as refrigerants, solvents, fire retardants, foam blowing agents, and other commercial applications and in achieving a transition to such alternatives, and, where appropriate, seek to maximize the use of Federal research facilities and resources to assist users of class I and class II substances in identifying and developing alternatives to the use of such substances as refrigerants, solvents, fire retardants, foam blowing agents, and other commercial applications;

(2) examine in consultation and coordination with the Secretary of Defense and the heads of other relevant Federal agencies and departments, including the General Services Administration, Federal procurement practices with respect to class I and class II substances and

recommend measures to promote the transition by the Federal Government, as expeditiously as possible, to the use of safe substitutes;

(3) specify initiatives, including appropriate intergovernmental, international, and commercial information and technology transfers, to promote the development and use of safe substitutes for class I and class II substances, including alternative chemicals, product substitutes, and alternative manufacturing processes; and

(4) maintain a public clearinghouse of alternative chemicals, product substitutes, and alternative manufacturing processes that are available for products and manufacturing processes which use class I and class II substances.

(c) ALTERNATIVES FOR CLASS I OR II SUBSTANCES.—Within 2 years after enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate rules under this section providing that it shall be unlawful to replace any class I or class II substance with any substitute substance which the Administrator determines may present adverse effects to human health or the environment, where the Administrator has identified an alternative to such replacement that—

(1) reduces the overall risk to human health and the environment; and

(2) is currently or potentially available.

The Administrator shall publish a list of (A) the substitutes prohibited under this subsection for specific uses and (B) the safe alternatives identified under this subsection for specific uses.

(d) RIGHT TO PETITION.—Any person may petition the Administrator to add a substance to the lists under subsection (c) or to remove a substance from either of such lists. The Administrator shall grant or deny the petition within 90 days after receipt of any such petition. If the Administrator denies the petition, the Administrator shall publish an explanation of why the petition was denied. If the Administrator grants such petition the Administrator shall publish such revised list within 6 months thereafter. Any petition under this subsection shall include a showing by the petitioner that there are data on the substance adequate to support the petition. If the Administrator determines that information on the substance is not sufficient to make a determination under this subsection, the Administrator shall use any authority available to the Administrator, under any law administered by the Administrator, to acquire such information.

(e) STUDIES AND NOTIFICATION.—The Administrator shall require any person who produces a chemical substitute for a class I substance to provide the Administrator with such person's unpublished health and safety studies on such substitute and require producers to notify the Administrator not less than 90 days before new or existing chemicals are introduced into interstate commerce for significant new uses as substitutes for a class I substance. This subsection shall be subject to section 114(c).

[¶ 2613]

Sec. 613. FEDERAL PROCUREMENT.

Not later than 18 months after the enactment of the Clean Air Act Amendments of 1990, the Administrator, in consultation with the Administrator of the General Services Administration and the Secretary of Defense, shall promulgate regulations requiring each department, agency, and instrumentality of the United States to conform its procurement regulations to the policies and requirements of this title and to maximize the substitution of safe alternatives identified under section 612 for class I and class II substances. Not later than 30 months after the enactment of the Clean Air Act Amendments of 1990, each department, agency, and instrumentality of the United States shall so conform its procurement regulations and certify to the President that its regulations have been modified in accordance with this section.

[¶ 2614]

Sec. 614. RELATIONSHIP TO OTHER LAWS.

(a) **STATE LAWS.**—Notwithstanding section 116, during the 2-year period beginning on the enactment of the Clean Air Act Amendments of 1990, no State or local government may enforce any requirement concerning the design of any new or recalled appliance for the purpose of protecting the stratospheric ozone layer.

(b) **MONTREAL PROTOCOL.**—This title as added by the Clean Air Act Amendments of 1990 shall be construed, interpreted, and applied as a supplement to the terms and conditions of the Montreal Protocol, as provided in Article 2, paragraph 11 thereof, and shall not be construed, interpreted, or applied to abrogate the responsibilities or obligations of the United States to implement fully the provisions of the Montreal Protocol. In the case of conflict between any provision of this title and any provision of the Montreal Protocol, the more stringent provision shall govern. Nothing in this title shall be construed, interpreted, or applied to affect the authority or responsibility of the Administrator to implement Article 4 of the Montreal Protocol with other appropriate agencies.

(c) **TECHNOLOGY EXPORT AND OVERSEAS INVESTMENT.**—Upon enactment of this title, the President shall—

(1) prohibit the export of technologies used to produce a class I substance;

(2) prohibit direct or indirect investments by any person in facilities designed to produce a class I or class II substance in nations that are not parties to the Montreal Protocol; and

(3) direct that no agency of the government provide bilateral or multilateral subsidies, aids, credits, guarantees, or insurance programs, for the purpose of producing any class I substance.

[¶ 2615]**Sec. 615. AUTHORITY OF ADMINISTRATOR.**

If, in the Administrator's judgment, any substance, practice, process, or activity may reasonably be anticipated to affect the stratosphere, especially ozone in the stratosphere, and such effect may reasonably be anticipated to endanger public health or welfare, the Administrator shall promptly promulgate regulations respecting the control of such substance, practice, process, or activity, and shall submit notice of the proposal and promulgation of such regulation to the Congress.

[¶ 2616]**Sec. 616. TRANSFERS AMONG PARTIES TO MONTREAL PROTOCOL.**

(a) **IN GENERAL.**—Consistent with the Montreal Protocol, the United States may engage in transfers with other Parties to the Protocol under the following conditions:

(1) The United States may transfer production allowances to another Party if, at the time of such transfer, the Administrator establishes revised production limits for the United States such that the aggregate national United States production permitted under the revised production limits equals the lesser of (A) the maximum production level permitted for the substance or substances concerned in the transfer year under the Protocol minus the production allowances transferred, (B) the maximum production level permitted for the substance or substances concerned in the transfer year under applicable domestic law minus the production allowances transferred, or (C) the average of the actual national production level of the substance or substances concerned for the 3 years prior to the transfer minus the production allowances transferred.

(2) The United States may acquire production allowances from another Party if, at the time of such transfer, the Administrator finds that the other Party has revised its domestic production limits in the same manner as provided with respect to transfers by the United States in subsection (a).

(b) **EFFECT OF TRANSFERS ON PRODUCTION LIMITS.**—The Administrator is authorized to reduce the production limits established under this Act as required as a prerequisite to transfers under paragraph (1) of subsection (a) or to increase production limits established under this Act to reflect production allowances acquired under a transfer under paragraph (2) of subsection (a).

(c) **REGULATIONS.**—The Administrator shall promulgate, within 2 years after the date of enactment of the Clean Air Act Amendments of 1990, regulations to implement this section.

(d) **DEFINITION.**—In the case of the United States, the term “applicable domestic law” means this Act.

[¶ 2617]

Sec. 617. INTERNATIONAL COOPERATION.

(a) **IN GENERAL.**—The President shall undertake to enter into international agreements to foster cooperative research which complements studies and research authorized by this title, and to develop standards and regulations which protect the stratosphere consistent with regulations applicable within the United States. For these purposes the President through the Secretary of State and the Assistant Secretary of State for Oceans and International Environmental and Scientific Affairs, shall negotiate multilateral treaties, conventions, resolutions, or other agreements, and formulate, present, or support proposals at the United Nations and other appropriate international forums and shall report to the Congress periodically on efforts to arrive at such agreements.

(b) **ASSISTANCE TO DEVELOPING COUNTRIES.**— Administrator, in consultation with the Secretary of State, shall support global participation in the Montreal Protocol by providing technical and financial assistance to developing countries that are Parties to the Montreal Protocol and operating under article 5 of the Protocol. There are authorized to be appropriated not more than \$30,000,000 to carry out this section in fiscal years 1991, 1992 and 1993 and such sums as may be necessary in fiscal years 1994 and 1995. If China and India become Parties to the Montreal Protocol, there are authorized to be appropriated not more than an additional \$30,000,000 to carry out this section in fiscal years 1991, 1992, and 1993.

[¶ 2618]

Sec. 618. MISCELLANEOUS PROVISIONS.

For purposes of section 116, requirements concerning the areas addressed by this title for the protection of the stratosphere against ozone layer depletion shall be treated as requirements for the control and abatement of air pollution. For purposes of section 118, the requirements of this title and corresponding State, interstate, and local requirements, administrative authority, and process, and sanctions respecting the protection of the stratospheric ozone layer shall be treated as requirements for the control and abatement of air pollution within the meaning of section 118.

Clean Air Act Amendments of 1990

[¶ 3000]

Public Law 101-549, November 15, 1990.

Provisions of the Clean Air Act Amendments of 1990 that do not amend the Clean Air Act are reproduced below.

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TITLE II—Provisions Relating to Mobile Sources

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[¶ 3231]

Sec. 231. ETHANOL SUBSTITUTE FOR DIESEL.

Within one year after the enactment of the Clean Air Act Amendments of 1990, the Administrator shall contract with a laboratory which has done research on alcohol esters of rapeseed oil to evaluate the feasibility, engine performance, emissions, and production capability associated with an alternative to diesel fuel composed of ethanol and high erucic rapeseed oil. The Administrator shall submit a report on the results of this research to Congress within 3 years of the issuance of such contract.

* * *

[¶ 3233]

Sec. 233. STATES AUTHORITY TO REGULATE.

(a) STUDY.—The Administrator of the Environmental Protection Agency and the Secretary of Transportation, in consultation with the Secretary of Defense, shall commence a study and investigation of the testing of uninstalled aircraft engines in enclosed test cells that shall address at a minimum the following issues and such other issues as they shall deem appropriate—

(1) whether technologies exist to control some or all emissions of oxides of nitrogen from test cells;

(2) the effectiveness of such technologies;

(3) the cost of implementing such technologies;

(4) whether such technologies affect the safety, design, structure, operation, or performance of aircraft engines;

(5) whether such technologies impair the effectiveness and accuracy of aircraft engine safety design, and performance tests conducted in test cells; and

(6) the impact of not controlling such oxides of nitrogen in the applicable nonattainment areas and on other sources, stationary and mobile, on oxides of nitrogen in such areas.

(b) REPORT, AUTHORITY TO REGULATE.—Not later than 24 months after enactment of the Clean Air Act Amendments of 1990, the Administrator of the Environmental Protection Agency and the Secretary of Transportation shall submit to Congress a report of the study conducted under this section. Following the completion of such study, any of the States may adopt or enforce

any standard for emissions of oxides of nitrogen from test cells only after issuing a public notice stating whether such standards are in accordance with the findings of the study.

[¶ 3234]

Sec. 234. FUGITIVE DUST.

(a) Prior to any use of the Industrial Source Complex (ISC) Model using AP-42 Compilation of Air Pollutant Emission Factors to determine the effect on air quality of fugitive particulate emissions from surface coal mines, for purposes of new source review or for purposes of demonstrating compliance with national ambient air quality standards for particulate matter applicable to periods of 24 hours or less, under section 110 or parts C or D of title I of the Clean Air Act, the Administrator shall analyze the accuracy of such model and emission factors and make revisions as may be necessary to eliminate any significant over-prediction of air quality effect of fugitive particulate emissions from such sources. Such revisions shall be completed not later than 3 years after the date of enactment of the Clean Air Act Amendments of 1990. Until such time as the Administrator develops a revised model for surface mine fugitive emissions, the State may use alternative empirical based modeling approaches pursuant to guidelines issued by the Administrator.

* * *

TITLE III—Hazardous Air Pollutants

* * *

[¶ 3303]

Sec. 303. RISK ASSESSMENT AND MANAGEMENT COMMISSION.

(a) **ESTABLISHMENT.**—There is hereby established a Risk Assessment and Management Commission (hereafter referred to in this section as the “Commission”), which shall commence proceedings not later than 18 months after the date of enactment of the Clean Air Act Amendments of 1990 and which shall make a full investigation of the policy implications and appropriate uses of risk assessment and risk management in regulatory programs under various Federal laws to prevent cancer and other chronic human health effects which may result from exposure to hazardous substances.

(b) **CHARGE.**—The Commission shall consider—

(1) the report of the National Academy of Sciences authorized by section 112(o) of the Clean Air Act, the use and limitations of risk assessment in establishing emission or effluent standards, ambient standards, exposure standards, acceptable concentration levels, tolerances or other environmental criteria for hazardous substances that present a risk of carcinogenic effects or other chronic health effects and the suitability of risk assessment for such purposes;

(2) the most appropriate methods for measuring and describing cancer risks or risks of other chronic health effects from exposure to hazardous substances considering such alternative approaches as the

lifetime risk of cancer or other effects to the individual or individuals most exposed to emissions from a source or sources on both an actual and worst case basis, the range of such risks, the total number of health effects avoided by exposure reductions, effluent standards, ambient standards, exposures standards, acceptable concentration levels, tolerances and other environmental criteria, reductions in the number of persons exposed at various levels of risk, the incidence of cancer, and other public health factors;

(3) methods to reflect uncertainties in measurement and estimation techniques, the existence of synergistic or antagonistic effects among hazardous substances, the accuracy of extrapolating human health risks from animal exposure data, and the existence of unquantified direct or indirect effects on human health in risk assessment studies;

(4) risk management policy issues including the use of lifetime cancer risks to individuals most exposed, incidence of cancer, the cost and technical feasibility of exposure reduction measures and the use of site-specific actual exposure information in setting emissions standards and other limitations applicable to sources of exposure to hazardous substances; and

(5) and comment on the degree to which it is possible or desirable to develop a consistent risk assessment methodology, or a consistent standard of acceptable risk, among various Federal programs.

(c) **MEMBERSHIP.**—Such Commission shall be composed of ten members who shall have knowledge or experience in fields of risk assessment or risk management, including three members to be appointed by the President, two members to be appointed by the Speaker of the House of Representatives, one member to be appointed by the Minority Leader of the House of Representatives, two members to be appointed by the Majority Leader of the Senate, one member to be appointed by the Minority Leader of the Senate, and one member to be appointed by the President of the National Academy of Sciences. Appointments shall be made not later than 18 months after the date of enactment of the Clean Air Act Amendments of 1990.

(d) **ASSISTANCE FROM AGENCIES.**—The Administrator of the Environmental Protection Agency and the heads of all other departments, agencies, and instrumentalities of the executive branch of the Federal Government shall, to the maximum extent practicable, assist the Commission in gathering such information as the Commission deems necessary to carry out this section subject to other provisions of law.

(e) **STAFF AND CONTRACTS.**—

(1) In the conduct of the study required by this section, the Commission is authorized to contract (in accordance with Federal contract law) with nongovernmental entities that are competent to perform research or investigations within the Commission's mandate, and to hold public hearings, forums, and workshops to enable full public participation.

(2) The Commission may appoint and fix the pay of such staff as it deems necessary in accordance with the provisions of title 5, United States Code. The Commission may request the temporary assignment of personnel from the Environmental Protection Agency or other Federal agencies.

(3) The members of the Commission who are not officers or employees of the United States, while attending conferences or meetings of the Commission or while otherwise serving at the request of the Chair, shall be entitled to receive compensation at a rate not in excess of the maximum rate of pay for Grade GS-18, as provided in the General Schedule under section 5332 of title 5 of the United States Code, including travel time, and while away from their homes or regular places of business they may be allowed travel expenses, including per diem in lieu of subsistence as authorized by law for persons in the Government service employed intermittently.

(f) REPORT.—A report containing the results of all Commission studies and investigations under this section, together with any appropriate legislative recommendations or administrative recommendations, shall be made available to the public for comment not later than 42 months after the date of enactment of the Clean Air Act Amendments of 1990 and shall be submitted to the President and to the Congress not later than 48 months after such date of enactment. In the report, the Commission shall make recommendations with respect to the appropriate use of risk assessment and risk management in Federal regulatory programs to prevent cancer or other chronic health effects which may result from exposure to hazardous substances. The Commission shall cease to exist upon the date determined by the Commission, but not later than 9 months after the submission of such report.

(g) AUTHORIZATION.—There are authorized to be appropriated such sums as are necessary to carry out the activities of the Commission established by this section.

[¶ 3304]

Sec. 304. CHEMICAL PROCESS SAFETY MANAGEMENT.

(a) CHEMICAL PROCESS SAFETY STANDARD.—The Secretary of Labor shall act under the Occupational Safety and Health Act of 1970 (29 U.S.C. 653) to prevent accidental releases of chemicals which could pose a threat to employees. Not later than 12 months after the date of enactment of the Clean Air Act Amendments of 1990, the Secretary of Labor, in coordination with the Administrator of the Environmental Protection Agency, shall promulgate, pursuant to the Occupational Safety and Health Act, a chemical process safety standard designed to protect employees from hazards associated with accidental releases of highly hazardous chemicals in the workplace.

(b) LIST OF HIGHLY HAZARDOUS CHEMICALS.—The Secretary shall include as part of such standard a list of highly hazardous chemicals, which include toxic, flammable, highly reactive and explosive substances. The list of such chemicals may include those chemicals listed by the Administrator under section 302 of the Emergency Planning and Community Right to Know Act of

1986. The Secretary may make additions to such list when a substance is found to pose a threat of serious injury or fatality in the event of an accidental release in the workplace.

(c) ELEMENTS OF SAFETY STANDARD.—Such standard shall, at minimum, require employers to—

(1) develop and maintain written safety information identifying workplace chemical and process hazards, equipment used in the processes, and technology used in the processes;

(2) perform a workplace hazard assessment, including, as appropriate, identification of potential sources of accidental releases, an identification of any previous release within the facility which had a likely potential for catastrophic consequences in the workplace, estimation of workplace effects of a range of releases, estimation of the health and safety effects of such range on employees;

(3) consult with employees and their representatives on the development and conduct of hazard assessments and the development of chemical accident prevention plans and provide access to these and other records required under the standard;

(4) establish a system to respond to the workplace hazard assessment findings, which shall address prevention, mitigation, and emergency responses;

(5) periodically review the workplace hazard assessment and response system;

(6) develop and implement written operating procedures for the chemical process including procedures for each operating phase, operating limitations, and safety and health considerations;

(7) provide written safety and operating information to employees and train employees in operating procedures, emphasizing hazards and safe practices;

(8) ensure contractors and contract employees are provided appropriate information and training;

(9) train and educate employees and contractors in emergency response in a manner as comprehensive and effective as that required by the regulation promulgated pursuant to section 126(d) of the Superfund Amendments and Reauthorization Act;

(10) establish a quality assurance program to ensure that initial process related equipment, maintenance materials, and spare parts are fabricated and installed consistent with design specifications;

(11) establish maintenance systems for critical process related equipment including written procedures, employee training, appropriate inspections, and testing of such equipment to ensure ongoing mechanical integrity;

(12) conduct pre-start-up safety reviews of all newly installed or modified equipment;

(13) establish and implement written procedures to manage change to process chemicals, technology, equipment and facilities; and

(14) Investigate every incident which results in or could have resulted in a major accident in the workplace, with any findings to be reviewed by operating personnel and modifications made if appropriate.

(d) STATE AUTHORITY.—Nothing in this section may be construed to diminish the authority of the States and political subdivisions thereof as described in section 112(r)(11) of the Clean Air Act.

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[¶ 3305]

Sec. 305. SOLID WASTE COMBUSTION.

* * *

(c) REVIEW OF ACID GAS SCRUBBING REQUIREMENTS.—Prior to the promulgation of any performance standard for solid waste incineration units combusting municipal waste under section 111 or section 129 of the Clean Air Act, the Administrator shall review the availability of acid gas scrubbers as a pollution control technology for small new units and for existing units (as defined in 54 FEDERAL REGISTER 52190 (December 20, 1989)), taking into account the provisions of subsection (a)(2) of section 129 of the Clean Air Act.

[¶ 3306]

Sec. 306. ASH MANAGEMENT AND DISPOSAL.

For a period of 2 years after the date of enactment of the Clean Air Act Amendments of 1990, ash from solid waste incineration units burning municipal waste shall not be regulated by the Administrator of the Environmental Protection Agency pursuant to section 3001 of the Solid Waste Disposal Act. Such reference and limitation shall not be construed to prejudice, endorse or otherwise affect any activity by the Administrator following the 2-year period from the date of enactment of the Clean Air Act Amendments of 1990.

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TITLE IV—Acid Deposition Control

* * *

[¶ 3402]

Sec. 402. FOSSIL FUEL USE.

(a) CONTRACTS FOR HYDROELECTRIC ENERGY.—Any person who, after the date of the enactment of the Clean Air Act Amendments of 1990, enters into a contract under which such person receives hydroelectric energy in return for the provision of electric energy by such person shall use allowances held by such person as necessary to satisfy such person's obligations under such contract.

(b) FEDERAL POWER MARKETING ADMINISTRATION.—A Federal Power Marketing Administration shall not be subject to the provisions and require-

ments of this title with respect to electric energy generated by hydroelectric facilities and marketed by such Power Marketing Administration. Any person who sells or provides electric energy to a Federal Power Marketing Administration shall comply with the provisions and requirements of this title.

[¶ 3403]

Sec. 403. REPEAL OF PERCENT REDUCTION.

* * *

(b) REVISED REGULATIONS.—Not later than three years after the date of enactment of the Clean Air Act Amendments of 1990, the Administrator shall promulgate revised regulations for standards of performance for new fossil fuel fired electric utility units commencing construction after the date on which such regulations are proposed that, at a minimum, require any source subject to such revised standards to emit sulfur dioxide at a rate not greater than would have resulted from compliance by such source with the applicable standards of performance under this section prior to such revision.

(c) APPLICABILITY.—The provisions of subsections (a) and (b) apply only so long as the provisions of section 403(e) of the Clean Air Act remain in effect.

* * *

[¶ 3404]

Sec. 404. ACID DEPOSITION STANDARDS.

Not later than 36 months after the date of enactment of this Act, the Administrator of the Environmental Protection Agency shall transmit to the Committee on Environment and Public Works of the Senate and the Committee on Energy and Commerce of the House of Representatives a report on the feasibility and effectiveness of an acid deposition standard or standards to protect sensitive and critically sensitive aquatic and terrestrial resources. The study required by this section shall include, but not be limited to, consideration of the following matters:

(1) identification of the sensitive and critically sensitive aquatic and terrestrial resources in the United States and Canada which may be affected by the deposition of acidic compounds;

(2) description of the nature and numerical value of a deposition standard or standards that would be sufficient to protect such resources;

(3) description of the use of such standard or standards in other Nations or by any of the several States in acid deposition control programs;

(4) description of the measures that would need to be taken to integrate such standard or standards with the control program required by title IV of the Clean Air Act;

(5) description of the state of knowledge with respect to source-receptor relationships necessary to develop a control program on such standard or standards and the additional research that is on-going or would be needed to make such a control program feasible; and

(6) description of the impediments to implementation of such control program and the cost-effectiveness of deposition standards compared to other control strategies including ambient air quality standards, new source performance standards and the requirements of title IV of the Clean Air Act.

[¶ 3405]

Sec. 405. NATIONAL ACID LAKES REGISTRY.

The Administrator of the Environmental Protection Agency shall create a National Acid Lakes Registry that shall list, to the extent practical, all lakes that are known to be acidified due to acid deposition, and shall publish such list within one year of the enactment of this Act. Lakes shall be added to the registry as they become acidic or as data become available to show they are acidic. Lakes shall be deleted from the registry as they become nonacidic.

[¶ 3406]

Sec. 406. INDUSTRIAL SO₂ EMISSIONS.

(a) REPORT.—Not later than January 1, 1995 and every 5 years thereafter, the Administrator of the Environmental Protection Agency shall transmit to the Congress a report containing an inventory of national annual sulfur dioxide emissions from industrial sources (as defined in title IV of the Act), including units subject to section 405(g)(6) of the Clean Air Act, for all years for which data are available, as well as the likely trend in such emissions over the following twenty-year period. The reports shall also contain estimates of the actual emission reduction in each year resulting from promulgation of the diesel fuel desulfurization regulations under section 214.

(b) 5.60 MILLION TON CAP.—Whenever the inventory required by this section indicates that sulfur dioxide emissions from industrial sources, including units subject to section 405(g)(5) of the Clean Air Act, may reasonably be expected to reach levels greater than 5.60 million tons per year, the Administrator of the Environmental Protection Agency shall take such actions under the Clean Air Act as may be appropriate to ensure that such emissions do not exceed 5.60 million tons per year. Such actions may include the promulgation of new and revised standards of performance for new sources, including units subject to section 405(g)(5) of the Clean Air Act, under section 111(b) of the Clean Air Act, as well as promulgation of standards of performance for existing sources, including units subject to section 405(g)(5) of the Clean Air Act, under authority of this section. For an existing source regulated under this section, “standard of performance” means a standard which the Administrator determines is applicable to that source and which reflects the degree of emission reduction achievable through the application of the best system of continuous emission reduction which (taking into consideration the cost of achieving such emission reduction, and any nonair quality health and environmental impact and energy requirements) the Administrator determines has been adequately demonstrated for that category of sources.

(c) **ELECTION.**—Regulations promulgated under section 405(b) of the Clean Air Act shall not prohibit a source from electing to become an affected unit under section 410 of the Clean Air Act.

[¶ 3407]

Sec. 407. SENSE OF THE CONGRESS ON EMISSION REDUCTIONS COSTS.

It is the sense of the Congress that the Clean Air Act Amendments of 1990, through the allowance program, allocate the costs of achieving the required reductions in emissions of sulfur dioxide and oxides of nitrogen among sources in the United States. Broad based taxes and emissions fees that would provide for payment of the costs of achieving required emissions reductions by any party or parties other than the sources required to achieve the reductions are undesirable.

[¶ 3408]

Sec. 408. MONITOR ACID RAIN PROGRAM IN CANADA.

(a) **REPORTS TO CONGRESS.**—The Administrator of the Environmental Protection Agency, in consultation with the Secretary of State, the Secretary of Energy, and other persons the Administrator deems appropriate, shall prepare and submit a report to Congress on January 1, 1994, January 1, 1999, and January 1, 2005.

(b) **CONTENTS.**—The report to Congress shall analyze the current emission levels of sulfur dioxide and nitrogen oxides in each of the provinces participating in Canada's acid rain control program, the amount of emission reductions of sulfur dioxide and oxides of nitrogen achieved by each province, the methods utilized by each province in making those reductions, the costs to each province and the employment impacts in each province of making and maintaining those reductions.

(c) **COMPLIANCE.**—Beginning on January 1, 1999, the reports shall also assess the degree to which each province is complying with its stated emissions cap.

[¶ 3409]

Sec. 409. REPORT ON CLEAN COAL TECHNOLOGIES EXPORT PROGRAMS.

The Secretary of Energy in consultation with the Secretary of Commerce shall provide a report to the Congress within one year of enactment of this legislation which will identify, inventory and analyze clean coal technologies export programs within United States Government agencies including the Departments of State, Commerce, and Energy and at the Export-Import Bank and the Overseas Private Investment Corporation. The study shall address the effectiveness of interagency coordination of export promotion and determine the feasibility of establishing an interagency commission for the purpose of promoting the export and use of clean coal technologies.

[¶ 3410]**Sec. 410. ACID DEPOSITION RESEARCH BY THE UNITED STATES FISH AND WILDLIFE SERVICE.**

There are authorized to be appropriated to the United States Fish and Wildlife Service of the Department of the Interior an amount equal to \$500,000 to fund research related to acid deposition and the monitoring of high altitude mountain lakes in the Wind River Reservation, Wyoming, to be conducted through the Management Assistance Office of the United States Fish and Wildlife Service located in Lander, Wyoming and the University of Wyoming.

[¶ 3411]**Sec. 411. STUDY OF BUFFERING AND NEUTRALIZING AGENTS.**

There are authorized to be appropriated to the United States Fish and Wildlife Service of the Department of the Interior an amount equal to \$250,000 to fund a study to be conducted in conjunction with the University of Wyoming of the effectiveness of various buffering and neutralizing agents used to restore lakes and streams damaged by acid deposition.

* * *

[¶ 3413]**Sec. 413. SPECIAL CLEAN COAL TECHNOLOGY PROJECT.**

(a) DEMONSTRATION PROJECT.—The Secretary of Energy shall, subject to appropriation, as part of the Secretary's activities with respect to fossil energy research and development under the Department of Energy Organization Act (Public Law 95-91) consider funding at least 50 percent of the cost of a demonstration project to design, construct, and test a technology system for a cyclone boiler that will serve as a model for sulfur dioxide and nitrogen oxide reduction technology at a combustion unit required to meet the emissions reductions prescribed in this bill. The Secretary shall expedite approval and funding to enable such project to be completed no later than January 1, 1995.

The unit selected for this project shall be in a utility plant that (1) is among the top 10 emitters of sulfur dioxide as identified on Table A of section 404; (2) has 3 or more units, 2 of which are cyclone boiler units; and (3) has no existing scrubbers.

(b) AUTHORIZATION.—There are authorized to be appropriated such sums as may be necessary to carry out this section, to remain available until expended.

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TITLE VI—Stratospheric Ozone Protection

* * *

[¶ 3603]

Sec. 603. METHANE STUDIES.

(a) **ECONOMICALLY JUSTIFIED ACTIONS.**—Not later than 2 years after enactment of this Act, the Administrator shall prepare and submit a report to the Congress that identifies activities, substances, processes, or combinations thereof that could reduce methane emissions and that are economically and technologically justified with and without consideration of environmental benefit.

(b) **DOMESTIC METHANE SOURCE INVENTORY AND CONTROL.**—Not later than 2 years after the enactment of this Act, the Administrator, in consultation and coordination with the Secretary of Energy and the Secretary of Agriculture, shall prepare and submit to the Congress reports on each of the following:

(1) Methane emissions associated with natural gas extraction, transportation, distribution, storage, and use. Such report shall include an inventory of methane emissions associated with such activities within the United States. Such emissions include, but are not limited to, accidental and intentional releases from natural gas and oil wells, pipelines, processing facilities, and gas burners. The report shall also include an inventory of methane generation with such activities.

(2) Methane emissions associated with coal extraction, transportation, distribution, storage, and use. Such report shall include an inventory of methane emissions associated with such activities within the United States. Such emissions include, but are not limited to, accidental and intentional releases from mining shafts, degasification wells, gas recovery wells and equipment, and from the processing and use of coal. The report shall also include an inventory of methane generation with such activities.

(3) Methane emissions associated with management of solid waste. Such report shall include an inventory of methane emissions associated with all forms of waste management in the United States, including storage, treatment, and disposal.

(4) Methane emissions associated with agriculture. Such report shall include an inventory of methane emissions associated with rice and livestock production in the United States.

(5) Methane emissions associated with biomass burning. Such report shall include an inventory of methane emissions associated with the intentional burning of agricultural wastes, wood, grasslands, and forests.

(6) Other methane emissions associated with human activities. Such report shall identify and inventory other domestic sources of methane emissions that are deemed by the Administrator and other such agencies to be significant.

(c) **INTERNATIONAL STUDIES.**—

(1) METHANE EMISSIONS.—Not later than 2 years after the enactment of this Act, the Administrator shall prepare and submit to the Congress a report on methane emissions from countries other than the United States. Such report shall include inventories of methane emissions associated with the activities listed in subsection (b).

(2) PREVENTING INCREASES IN METHANE CONCENTRATIONS.—Not later than 2 years after the enactment of this Act, the Administrator shall prepare and submit to the Congress a report that analyzes the potential for preventing an increase in atmospheric concentrations of methane from activities and sources in other countries. Such report shall identify and evaluate the technical options for reducing methane emission from each of the activities listed in subsection (b), as well as other activities or sources that are deemed by the Administrator in consultation with other relevant Federal agencies and departments to be significant and shall include an evaluation of costs. The report shall identify the emissions reductions that would need to be achieved to prevent increasing atmospheric concentrations of methane. The report shall also identify technology transfer programs that could promote methane emissions reductions in lesser developed countries.

(d) NATURAL SOURCES.—Not later than 2 years after the enactment of this Act, the Administrator shall prepare and submit to the Congress a report on—

(1) methane emissions from biogenic sources such as (A) tropical, temperate, and subarctic forests, (B) tundra, and (C) freshwater and saltwater wetlands; and

(2) the changes in methane emissions from biogenic sources that may occur as a result of potential increases in temperatures and atmospheric concentrations of carbon dioxide.

(e) STUDY OF MEASURES TO LIMIT GROWTH IN METHANE CONCENTRATIONS.—Not later than 2 years after the completion of the studies in subsections (b), (c), and (d), the Administrator shall prepare and submit to the Congress a report that presents options outlining measures that could be implemented to stop or reduce the growth in atmospheric concentrations of methane from sources within the United States referred to in paragraphs (1) through (6) of subsection (b). This study shall identify and evaluate the technical options for reducing methane emissions from each of the activities listed in subsection (b), as well as other activities or sources deemed by such agencies to be significant, and shall include an evaluation of costs, technology, safety, energy, and other factors. The study shall be based on the other studies under this section. The study shall also identify programs of the United States and international lending agencies that could be used to induce lesser developed countries to undertake measures that will reduce methane emissions and the resource needs of such programs.

(f) INFORMATION GATHERING.—In carrying out the studies under this section, the provisions and requirements of section 114 of the Clean Air Act

shall be available for purposes of obtaining information to carry out such studies.

(g) **CONSULTATION AND COORDINATION.**—In preparing the studies under this section the Administrator shall consult and coordinate with the Secretary of Energy, the Administrators of the National Aeronautics and Space Administration and the National Oceanic and Atmospheric Administration, and the heads of other relevant Federal agencies and departments. In the case of the studies under subsections (a), (b), and (e), such consultation and coordination shall include the Secretary of Agriculture.

TITLE VII—Provisions Relating to Enforcement

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[¶ 3711]

Sec. 711. SAVINGS PROVISIONS AND EFFECTIVE DATES.

(a) **SAVINGS PROVISIONS.**—Except as otherwise expressly provided in this Act, no suit, action, or other proceeding lawfully commenced by the Administrator or any other officer or employee of the United States in his official capacity or in relation to the discharge of his official duties under the Clean Air Act, as in effect immediately prior to the date of enactment of this Act, shall abate by reason of the taking effect of the amendments made by this Act.

(b) **EFFECTIVE DATES.**—(1) Except as otherwise expressly provided, the amendments made by this Act shall be effective on the date of enactment of this Act.

(2) The Administrator's authority to assess civil penalties under section 205(c) of the Clean Air Act, as amended by this Act, shall apply to violations that occur or continue on or after the date of enactment of this Act. Civil penalties for violations that occur prior to such date and do not continue after such date shall be assessed in accordance with the provisions of the Clean Air Act in effect immediately prior to the date of enactment of this Act.

(3) The civil penalties prescribed under sections 205(a) and 211(d)(1) of the Clean Air Act, as amended by this Act, shall apply to violations that occur on or after the date of enactment of this Act. Violations that occur prior to such date shall be subject to the civil penalty provisions prescribed in sections 205(a) and 211(d) of the Clean Air Act in effect immediately prior to the enactment of this Act. The injunctive authority prescribed under section 211(d)(2) of the Clean Air Act, as amended by this Act, shall apply to violations that occur or continue on or after the date of enactment of this Act.

(4) For purposes of paragraphs (2) and (3), where the date of a violation cannot be determined it will be assumed to be the date on which the violation is discovered.

TITLE VIII—Miscellaneous Provisions

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[¶ 3807]

Sec. 807. HYDROGEN FUEL CELL VEHICLE STUDY AND TEST PROGRAM.

The Administrator of the Environmental Protection Agency, in conjunction with the National Aeronautics and Space Administration and the Department of Energy, shall conduct a study and test program on the development of a hydrogen fuel cell electric vehicle. The study and test program shall determine how best to transfer existing NASA hydrogen fuel cell technology into the form of a mass-producible, cost effective hydrogen fuel cell vehicle. Such study and test program shall include at a minimum a feasibility-design study, the construction of a prototype, and a demonstration. This study and test program should be completed and a report submitted to Congress within 3 years after the enactment of the Clean Air Act Amendments of 1990. This study and test program should be performed in the university or universities which are best exhibiting the facilities and expertise to develop such a fuel cell vehicle.

[¶ 3808]

Sec. 808. RENEWABLE ENERGY AND ENERGY CONSERVATION INCENTIVES.

(a) DEFINITION.—For purposes of this section, “renewable energy” means energy from photovoltaic, solar thermal, wind, geothermal, and biomass energy production technologies.

(b) RATE INCENTIVES STUDY.—Within 18 months after enactment, the Federal Energy Regulatory Commission, in consultation with the Environmental Protection Agency, shall complete a study which calculates the net environmental benefits of renewable energy, compared to nonrenewable energy, and assigns numerical values to them. The study shall include, but not be limited to, environmental impacts on air, water, land use, water use, human health, and waste disposal.

(c) MODEL REGULATIONS.—In conjunction with the study in subsection (b), the Commission shall propose one or more models for incorporating the net environmental benefits into the regulatory treatment of renewable energy in order to provide economic compensation for those benefits.

(d) REPORT.—The Commission shall transmit the study and the model regulations to Congress, along with any recommendations on the best ways to reward renewable energy technologies for their environmental benefits, in a report no later than 24 months after enactment.

[¶ 3809]

Sec. 809. CLEAN AIR STUDY OF SOUTHWESTERN NEW MEXICO.

The Administrator shall conduct a study of the causes of degraded visibility in southwestern New Mexico. The Administrator, in consultation with the Secretary of State, is encouraged to cooperate with the Government of Mexico, other Federal agencies, and any other appropriate organizations in conducting the study. Nothing in this section shall be construed as contravening or superseding the provisions of any international agreement in force for

the United States as of the date of enactment of this section, or any relevant Federal statute.

[¶ 3810]

Sec. 810. IMPACT ON SMALL COMMUNITIES.

Before implementing a provision of this Act, the Administrator of the Environmental Protection Agency shall consult with the Small Communities Coordinator of the Environmental Protection Agency to determine the impact of such provision on small communities, including the estimated cost of compliance with such provision.

[¶ 3811]

Sec. 811. EQUIVALENT AIR QUALITY CONTROLS AMONG TRADING NATIONS.

(a) FINDINGS.—The Congress finds that—

(1) all nations have the responsibility to adopt and enforce effective air quality standards and requirements and the United States, in enacting this Act, is carrying out its responsibility in this regard;

(2) as a result of complying with this Act, businesses in the United States will make significant capital investments and incur incremental costs in implementing control technology standards;

(3) such compliance may impair the competitiveness of certain United States jobs, production, processes, and products if foreign goods are produced under less costly environmental standards and requirements than are United States goods; and

(4) mechanisms should be sought through which the United States and its trading partners can agree to eliminate or reduce competitive disadvantages.

(b) ACTION BY THE PRESIDENT.—

(1) IN GENERAL.—Within 18 months after the date of the enactment of the Clean Air Act Amendments of 1990, the President shall submit to the Congress a report—

(A) identifying and evaluating the economic effects of—

(i) the significant air quality standards and controls required under this Act, and

(ii) the differences between the significant standards and controls required under this Act and similar standards and controls adopted and enforced by the major trading partners of the United States,

on the international competitiveness of United States manufacturers; and

(B) containing a strategy for addressing such economic effects through trade consultations and negotiations.

(2) **ADDITIONAL REPORTING REQUIREMENTS.**—(A) The evaluation required under paragraph (1)(A) shall examine the extent to which the significant air quality standards and controls required under this Act are comparable to existing internationally-agreed norms.

(B) The strategy required to be developed under paragraph (1)(B) shall include recommended options (such as the harmonization of standards and trade adjustment measures) for reducing or eliminating competitive disadvantages caused by differences in standards and controls between the United States and each of its major trading partners.

(3) **PUBLIC COMMENT.**—Interested parties shall be given an opportunity to submit comments regarding the evaluations and strategy required in the report under paragraph (1). The President shall take any such comment into account in preparing the report.

(4) **INTERIM REPORT.**—Within 9 months after the date of the enactment of the Clean Air Act Amendments of 1990, the President shall submit to the Congress an interim report on the progress being made in complying with paragraph (1).

[¶ 3812]

Sec. 812. ANALYSES OF COSTS AND BENEFITS.

* * *

(b) **GAO REPORTS ON COSTS AND BENEFITS.**—Commencing on the second year after the date of the enactment of the Clean Air Act Amendments of 1990 and annually thereafter, the Comptroller General of the General Accounting Office, in consultation with other agencies, such as the Environmental Protection Agency, the Department of Labor, the Department of Commerce, the United States Trade Representative, the National Academy of Sciences, the Office of Technology Assessment, the National Academy of Engineering, the Council on Environmental Quality, and the Surgeon General, shall provide a report to the Congress on the incremental human health and environmental benefits, and incremental costs beyond current clean air requirements of the new control strategies and technologies required by this Act. The report shall include, for such strategies and technologies, an analysis of the actual emissions reductions beyond existing practice, the effects on human life, human health and the environment (including both positive impacts and those that may be detrimental to jobs and communities resulting from loss of employers and employment, etc.), the energy security impacts, and the effect on United States products and industrial competitiveness in national and international markets.

[¶ 3813]

Sec. 813. COMBUSTION OF CONTAMINATED USED OIL IN SHIPS.

Within 2 years after the enactment of the Clean Air Act Amendments of 1990, the Administrator of the Environmental Protection Agency shall complete a study and submit a report to Congress evaluating the health and

environmental impacts of the combustion of contaminated used oil in ships, the reasons for using such oil for such purposes, the alternatives to such use, the costs of such alternatives, and other relevant factors and impacts. In preparing such study, the Administrator shall obtain the view and comments of all interested persons and shall consult with the Secretary of Transportation and the Secretary of the department in which the Coast Guard is operating.

[¶ 3814]

Sec. 814. AMERICAN MADE PRODUCTS.

It is the sense of the Congress that—

(1) existing equipment and machinery retrofitted to comply with the Clean Air Act's "Best Available Control Technology" language and all other specifications within the Act be produced in the United States and purchased from American manufacturers.

(2) The construction of new industrial and utility facilities, comply to the Act's specifications through the incorporation of American made equipment and technology.

(3) Individuals, groups, and organizations in the public sector strive to purchase and produce American made products that improve our nation's air quality.

[¶ 3815]

Sec. 815. ESTABLISHMENT OF PROGRAM TO MONITOR AND IMPROVE AIR QUALITY IN REGIONS ALONG THE BORDER BETWEEN THE UNITED STATES AND MEXICO.

(a) **IN GENERAL.**—The Administrator of the Environmental Protection Agency (hereinafter referred to as the "Administrator") is authorized, in cooperation with the Department of State and the affected States, to negotiate with representatives of Mexico to authorize a program to monitor and improve air quality in regions along the border between the United States and Mexico. The program established under this section shall not extend beyond July 1, 1995.

(b) **MONITORING AND REMEDIATION.**—

(1) **MONITORING.**—The monitoring component of the program conducted under this section shall identify and determine sources of pollutants for which national ambient air quality standards (hereinafter referred to as "NAAQS") and other air quality goals have been established in regions along the border between the United States and Mexico. Any such monitoring component of the program shall include, but not be limited to, the collection of meteorological data, the measurement of air quality, the compilation of an emissions inventory, and shall be sufficient to the extent necessary to successfully support the use of a state-of-the-art mathematical air modeling analysis. Any such monitoring component of the program shall collect and produce data projecting the level of emission reductions necessary in both Mexico and the United States to bring about attainment of both primary and secondary NAAQS, and other air

quality goals, in regions along the border in the United States. Any such monitoring component of the program shall include to the extent possible, data from monitoring programs undertaken by other parties.

(2) REMEDIATION.—The Administrator is authorized to negotiate with appropriate representatives of Mexico to develop joint remediation measures to reduce the level of airborne pollutants to achieve and maintain primary and secondary NAAQS, and other air quality goals, in regions along the border between the United States and Mexico. Such joint remediation measures may include, but not be limited to measures included in the Environmental Protection Agency's Control Techniques and Control Technology documents. Any such remediation program shall also identify those control measures implementation of which in Mexico would be expedited by the use of material and financial assistance of the United States.

(c) ANNUAL REPORTS.—The Administrator shall, each year the program authorized in this section is in operation, report to Congress on the progress of the program in bringing nonattainment areas along the border of the United States into attainment with primary and secondary NAAQS. The report issued by the Administrator under this paragraph shall include recommendations on funding mechanisms to assist in implementation of monitoring and remediation efforts.

(d) FUNDING AND PERSONNEL.—The Administrator may, where appropriate, make available, subject to the appropriations, such funds, personnel, and equipment as may be necessary to implement the provisions of this section. In those cases where direct financial assistance of the United States is provided to implement monitoring and remediation programs in Mexico, the Administrator shall develop grant agreements with appropriate representatives of Mexico to assure the accuracy and completeness of monitoring data and the performance of remediation measures which are financed by the United States. With respect to any control measures within Mexico funded by the United States, the Administrator shall, to the maximum extent practicable, utilize resources of Mexico where such utilization would reduce costs to the United States. Such funding agreements shall include authorization for the Administrator to—

(1) review and agree to plans for monitoring and remediation;

(2) inspect premises, equipment and records to insure compliance with the agreements established under and the purposes set forth in this section; and

(3) where necessary, develop grant agreements with affected States to carry out the provisions of this section.

* * *

[¶ 3817]**Sec. 817. ROLE OF SECONDARY STANDARDS.**

(a) **REPORT.**—The Administrator shall request the National Academy of Sciences to prepare a report to the Congress on the role of national secondary ambient air quality standards in protecting welfare and the environment. The report shall:

(1) include information on the effects on welfare and the environment which are caused by ambient concentrations of pollutants listed pursuant to section 108 and other pollutants which may be listed;

(2) estimate welfare and environmental costs incurred as a result of such effects;

(3) examine the role of secondary standards and the State implementation planning process in preventing such effects;

(4) determine ambient concentrations of each such pollutant which would be adequate to protect welfare and the environment from such effects;

(5) estimate the costs and other impacts of meeting secondary standards; and

(6) consider other means consistent with the goals and objectives of the Clean Air Act which may be more effective than secondary standards in preventing or mitigating such effects.

(b) **SUBMISSION TO CONGRESS; COMMENTS; AUTHORIZATION.**—(1) The report shall be transmitted to the Congress not later than 3 years after the date of enactment of the Clean Air Act Amendments of 1990.

(2) At least 90 days before issuing a report the Administrator shall provide an opportunity for public comment on the proposed report. The Administrator shall include in the final report a summary of the comments received on the proposed report.

(3) There are authorized to be appropriated such sums as are necessary to carry out this section.

* * *

[¶ 3819]**Sec. 819. EXEMPTIONS FOR STRIPPER WELLS.**

Notwithstanding any other provision of law, the amendments to the Clean Air Act made by section 103 of the Clean Air Act Amendments of 1990 (relating to additional provisions for ozone nonattainment areas), by section 104 of such amendments (relating to additional provisions for carbon monoxide nonattainment areas), by section 105 of such amendments (relating to additional provisions for PM-10 nonattainment areas), and by section 106 of such amendments (relating to additional provisions for areas designated as nonattainment for sulfur oxides, nitrogen dioxide, and lead) shall not apply with respect to the production of and equipment used in the exploration, production, development, storage or processing of—

(1) oil from a stripper well property, within the meaning of the June 1979 energy regulations (within the meaning of section 4996(b)(7) of the Internal Revenue Code of 1986, as in effect before the repeal of such section); and

(2) stripper well natural gas, as defined in section 108(b) of the Natural Gas Policy Act of 1978 (15 U.S.C. 3318(b)),

except to the extent that provisions of such amendments cover areas designated as Serious pursuant to part D of title I of the Clean Air Act and having a population of 350,000 or more, or areas designated as Severe or Extreme pursuant to such part D.

[¶ 3820]

Sec. 820. EPA REPORT ON MAGNETIC LEVITATION.

The Administrator of the Environmental Protection Agency shall, not later than 6 months after the date of enactment of this Act, submit to the Congress and the President a report of the Administrator's activities under any agreement with the Department of Transportation entered into prior to such date of enactment providing for an analysis of the health and environmental aspects of magnetic levitation technology.

[¶ 3821]

Sec. 821. INFORMATION GATHERING ON GREENHOUSE GASES CONTRIBUTING TO GLOBAL CLIMATE CHANGE.

(a) MONITORING.—The Administrator of the Environmental Protection Agency shall promulgate regulations within 18 months after the enactment of the Clean Air Act Amendments of 1990 to require that all affected sources subject to title V of the Clean Air Act shall also monitor carbon dioxide emission according to the same timetable as in section 511(b) and (c). The regulations shall require that such data be reported to the Administrator. The provisions of section 511(e) of title V of the Clean Air Act shall apply for purposes of this section in the same manner and to the same extent as such provision applies to the monitoring and data referred to in section 511.

(b) PUBLIC AVAILABILITY OF CARBON DIOXIDE INFORMATION.—For each unit required to monitor and provide carbon dioxide data under subsection (a), the Administrator shall compute the unit's aggregate annual total carbon dioxide emissions, incorporate such data into a computer data base, and make such aggregate annual data available to the public.

* * *

TITLE IX—Clean Air Research

[¶ 3901]

Sec. 901. CLEAN AIR RESEARCH.

* * *

(e) ASSESSMENT OF INTERNATIONAL AIR POLLUTION CONTROL TECHNOLOGIES.—The Administrator of the Environmental Protection Agency shall con-

duct a study that compares international air pollution control technologies of selected industrialized countries to determine if there exist air pollution control technologies in countries outside the United States that may have beneficial applications to this Nation's air pollution control efforts. With respect to each country studied, the study shall include the topics of urban air quality, motor vehicle emissions, toxic air emissions, and acid deposition. The Administrator shall, within 2 years after the date of enactment of this Act, submit to the Congress a report detailing the results of such study.

(f) **ADIRONDACK EFFECTS ASSESSMENT.**—The Administrator of the Environmental Protection Agency shall establish a program to research the effects of acid deposition on waters where acid deposition has been most acute. The Administrator shall enter into a multi-year contract for such purposes with an independent university which has a year-round field analytical laboratory on a body of water of not less than 25,000 acres nor greater than 75,000 acres, which lies within a geographic region designated as a Biosphere Reserve by the Department of State. The facility must have demonstrated the capability to analyze relevant data on said body of water over a period of 20 years as well as extensive ecosystem modeling capabilities. There are authorized to be appropriated to carry out this subsection not less than \$6,000,000.

(g) **WESTERN STATES ACID DEPOSITION RESEARCH.**—(1) The Administrator of the Environmental Protection Agency shall sponsor monitoring and research and submit to Congress annual and periodic assessment reports on—

(A) the occurrence and effects of acid deposition on surface waters located in that part of the United States west of the Mississippi River;

(B) the occurrence and effects of acid deposition on high elevation ecosystems (including forests, and surface waters); and

(C) the occurrence and effects of episodic acidification, particularly with respect to high elevation watersheds.

(2) The Administrator of the Environmental Protection Agency shall analyze data generated from the studies conducted under paragraph (1), data from the Western Lakes Survey, and other appropriate research and utilize predictive modeling techniques that take into account the unique geographic, climatological, and atmospheric conditions which exist in the western United States to determine the potential occurrence and effects of acid deposition due to any projected increases in the emission of sulfur dioxide and nitrogen oxides in that part of the United States located west of the Mississippi River. The Administrator shall include the results of the project conducted under this paragraph in the reports issued to Congress under paragraph (1).

(h)(1) In carrying out the provisions of section 103(f) of the Clean Air Act, the Secretary of Energy is authorized to enter into contracts and cooperative agreements with, and make grants to, nonprofit entities affiliated with the University of Nevada and the University of Wyoming.

(2) Agreements, contracts, and grants described in paragraph (1) shall provide that such nonprofit entities—

(A) may provide basic technical and management personnel; and

(B) shall make available permanent research support facilities owned by the nonprofit entities.

(3) The nonprofit entities described in paragraphs (1) and (2) shall be authorized to make grants, accept contributions, and enter into agreements with other entities to carry out the provisions of this subsection.

(4) There are authorized to be appropriated to the Department of Energy \$3,000,000 for fiscal year 1991 and such sums as may be necessary for each fiscal year thereafter to carry out the provisions of paragraph (1). Such amounts shall remain available until expended.

TITLE X—Disadvantaged Business Concerns

[§ 4001]

Sec. 1001. DISADVANTAGED BUSINESS CONCERNS.

(a) **IN GENERAL.**—In providing for any research relating to the requirements of the amendments made by the Clean Air Act Amendments of 1990 which uses funds of the Environmental Protection Agency, the Administrator of the Environmental Protection Agency shall, to the extent practicable, require that not less than 10 percent of total Federal funding for such research will be made available to disadvantaged business concerns.

(b) **DEFINITION.**—

(1)(A) For purposes of subsection (a), the term “disadvantaged business concern” means a concern—

(i) which is at least 51 percent owned by one or more socially and economically disadvantaged individuals or, in the case of a publicly traded company, at least 51 percent of the stock of which is owned by one or more socially and economically disadvantaged individuals; and

(ii) the management and daily business operations of which are controlled by such individuals.

(B)(i) A for-profit business concern is presumed to be a disadvantaged business concern for purposes of subsection (a) if it is at least 51 percent owned by, or in the case of a concern which is a publicly traded company at least 51 percent of the stock of the company is owned by, one or more individuals who are members of the following groups:

(I) Black Americans.

(II) Hispanic Americans.

(III) Native Americans.

(IV) Asian Americans.

(V) Women.

(VI) Disabled Americans.

(ii) The presumption established by clause (i) may be rebutted with respect to a particular business concern if it is reasonably established that the individual or individuals referred to in that clause with respect to that business concern are not experiencing impediments to establishing or developing such concern as a result of the individual's identification as a member of a group specified in that clause.

(C) The following institutions are presumed to be disadvantaged business concerns for purposes of subsection (a):

(i) Historically black colleges and universities, and colleges and universities having a student body in which 40 percent of the students are Hispanic.

(ii) Minority institutions (as that term is defined by the Secretary of Education pursuant to the General Education Provision Act (20 U.S.C. 1221 et seq.)).

(iii) Private and voluntary organizations controlled by individuals who are socially and economically disadvantaged.

(D) A joint venture may be considered to be a disadvantaged business concern under subsection (a), notwithstanding the size of such joint venture, if—

(i) a party to the joint venture is a disadvantaged business concern; and

(ii) that party owns at least 51 percent of the joint venture.

A person who is not an economically disadvantaged individual or a disadvantaged business concern, as a party to a joint venture, may not be a party to more than 2 awarded contracts in a fiscal year solely by reason of this subparagraph.

(E) Nothing in this paragraph shall prohibit any member of a racial or ethnic group that is not listed in subparagraph (B)(i) from establishing that they have been impeded in establishing or developing a business concern as a result of racial or ethnic discrimination.

[¶ 4002]

Sec. 1002. USE OF QUOTAS PROHIBITED.—

Nothing in this title shall permit or require the use of quotas or a requirement that has the effect of a quota in determining eligibility under section 1001.

TITLE XI—Clean Air Employment Transition Assistance**[¶ 4101]****Sec. 1101. CLEAN AIR EMPLOYMENT TRANSITION ASSISTANCE.**

(a) AMENDMENT.—Part B of title III of the Job Training Partnership Act (29 U.S.C. 1501) is amended by adding at the end the following:

“CLEAN AIR EMPLOYMENT TRANSITION ASSISTANCE

“Sec. 326. (a) DETERMINATION OF ELIGIBILITY.—

“(1) DEFINITIONS.—For purposes of this section, the term ‘eligible individual’ means an individual who—

“(A) is an eligible dislocated worker, as that term is defined in section 301(a), and

“(B) has been terminated or laid off, or has received a notice of termination or layoff, as a consequence of compliance with the Clean Air Act.

“(2) DETERMINATIONS.—The determination of eligibility under paragraph (1)(B) of this subsection shall be made by the Secretary of Labor, pursuant to criteria established by the Secretary, in consultation with the Administrator of the Environmental Protection Agency.

“(b) GRANTS AUTHORIZED.—The Secretary may make grants to States, substate grantees (as defined in section 312(c)), employers, employer associations, and representatives of employees—

“(1) to provide training, adjustment assistance, and employment services to eligible individuals adversely affected by compliance with the Clean Air Act; and

“(2) to make needs-related payments to such individuals in accordance with subsection (f) of this section.

“(c) PRIORITY AND APPROVAL.—

“(1) PRIORITY.—In reviewing applications for grants under subsection (b), the Secretary shall give priority to applications proposing to provide training, adjustment assistance, and services in areas which have the greatest number of eligible individuals.

“(2) NEEDS-RELATED PAYMENTS REQUIRED.—The Secretary shall not approve an application for a grant under subsection (b) unless the application contains assurances that the applicant will use grant funds to provide needs-related payments in accordance with subsection (f).

“(d) USE OF FUNDS.—Subject to the requirements of subsections (e) and (f) of this section, grants under subsection (b) may be used for any purpose for which funds may be used under section 314.

“(e) ADJUSTMENT ASSISTANCE.—

“(1) JOB SEARCH ALLOWANCE.—

“(A) IN GENERAL.—Grants under subsection (b) for adjustment assistance may be used to provide job search allowances to eligible individuals. Such allowance, if granted, shall provide reimbursement to the individual of not more than 90 percent of the cost of necessary job search expenses, as prescribed by regulations of the Secretary, but may not exceed \$800 unless the need for a greater amount is justified in the application and approved by the Secretary.

“(B) CRITERIA FOR GRANTING JOB SEARCH ALLOWANCES.—A job search allowance may be granted only—

“(i) to assist an eligible individual who has been totally separated in securing a job within the United States; and

“(ii) where the Secretary determines that such employee cannot reasonably be expected to secure suitable employment in the commuting area in which the worker resides.

“(2) RELOCATION ALLOWANCE.—

“(A) IN GENERAL.—Grants under subsection (b) for adjustment assistance may be used to provide relocation allowances to eligible individuals. Such an allowance may only be granted to assist an eligible individual in relocating within the United States and only if the Secretary determines that—

“(i) such employee cannot reasonably be expected to secure suitable employment in the commuting area in which the employee resides; and

“(ii) such employee—

“(I) has obtained suitable employment affording a reasonable expectation of long-term duration in the area in which the employee wishes to relocate, or has obtained a bona fide offer of such employment, and

“(II) is totally separated from employment at the time relocation commences.

“(B) AMOUNT OF RELOCATION ALLOWANCE.—The amount of any relocation allowance for any eligible individual may not exceed the amount which is equal to the sum of—

“(i) 90 percent of the reasonable and necessary expenses, specified in regulations prescribed by the Secretary, incurred in transporting an individual and the individual's family, if any, and household effects, and

“(ii) a lump-sum equivalent to 3 times the employee's average weekly wage, up to a maximum payment of \$800, unless the need for a greater amount is justified in the application and approved by the Secretary.

“(f) NEEDS-RELATED PAYMENTS.—The Secretary shall prescribe regulations with respect to the use of funds from grants under subsection (b) for

needs-related payments in order to enable eligible individuals to complete training or education programs under this section. Such regulations shall—

“(1) require that such payments shall be provided to an eligible individual only if such individual—

“(A) does not qualify or has ceased to qualify for unemployment compensation;

“(B) has been enrolled in training by the end of the 13th week of the individual’s initial unemployment compensation benefit period, or, if later, the end of the 8th week after an individual is informed that a short-term layoff will in fact exceed 6 months; and

“(C) is participating in training or education programs under this section, except that such regulations shall protect an individual from being disqualified pursuant to this clause for a failure to participate that is not the fault of the individual;

“(2) provide that to qualify for such payments the individual currently receives, or is a member of a family which currently receives, a total family income (exclusive of unemployment compensation, child support payments, and welfare payments) which, in relation to family size, is not in excess of the lower living standard income level;

“(3) provide that the levels of such payments shall be equal to the higher of—

“(A) the applicable level of unemployment compensation; or

“(B) the poverty level determined in accordance with criteria established by the Director of the Office of Management and Budget;

“(4) provide for the adjustment of payments to reflect changes in total family income; and

“(5) provide that the grantee shall obtain information with respect to such income, and changes therein, from the eligible individual.

“(g) ADMINISTRATIVE EXPENSES.—The Secretary of Labor may reserve not more than 5 percent of the funds appropriated under this section for the administration of activities authorized under this section, including the provision of technical assistance for the preparation of grant applications.

“(h) AUTHORIZATION OF APPROPRIATIONS.—In addition to amounts authorized to be appropriated by section 3(c) of this Act, there are authorized to be appropriated \$50,000,000 for fiscal year 1991, and such sums as may be necessary for each of fiscal years 1992, 1993, 1994, and 1995 to carry out this section. The total amount appropriated for all 5 such fiscal years shall not exceed \$250,000,000. Amounts appropriated pursuant to this subsection shall remain available until expended.

“(i) REGULATIONS.—The Secretary shall prescribe regulations to carry out this section not later than 180 days after the date of enactment of this section.

“(j) GAO ASSESSMENT OF EFFECTS OF CLEAN AIR ACT COMPLIANCE OF EMPLOYMENT.—The Comptroller General of the United States shall—

“(1) identify and assess, to the extent possible, the effects on employment that are attributable to compliance with the provisions of the Clean Air Act; and

“(2) submit to the Congress on the 4th anniversary of the date of the enactment of this subtitle a written report on the assessments required under paragraph(1).”.

(b) CONFORMING AMENDMENTS.—

(1) The table of contents of the Job Training Partnership Act is amended by adding at the end of the items pertaining to part B of title III the following:

“Sec. 326. Clean air employment transition assistance”.

(2) Section 3(c) of the Job Training Partnership Act is amended by inserting “(other than section 326 thereof)” after “title III”.

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